

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 46/360 = 0.12$

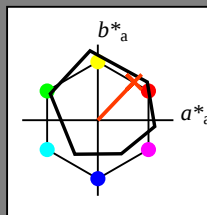
Data for any device (d) or elementary (e) colour:

HIC^*_-

hue text for the colours of this page:

$H^*_- = R25Y_-$

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):

$LabCh^*_{-,Ma}$: 56 48 50 69 46

$HIC^*_{-,Ma}$: R25Y_100_100_

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

1.0 0.23 0.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 92$

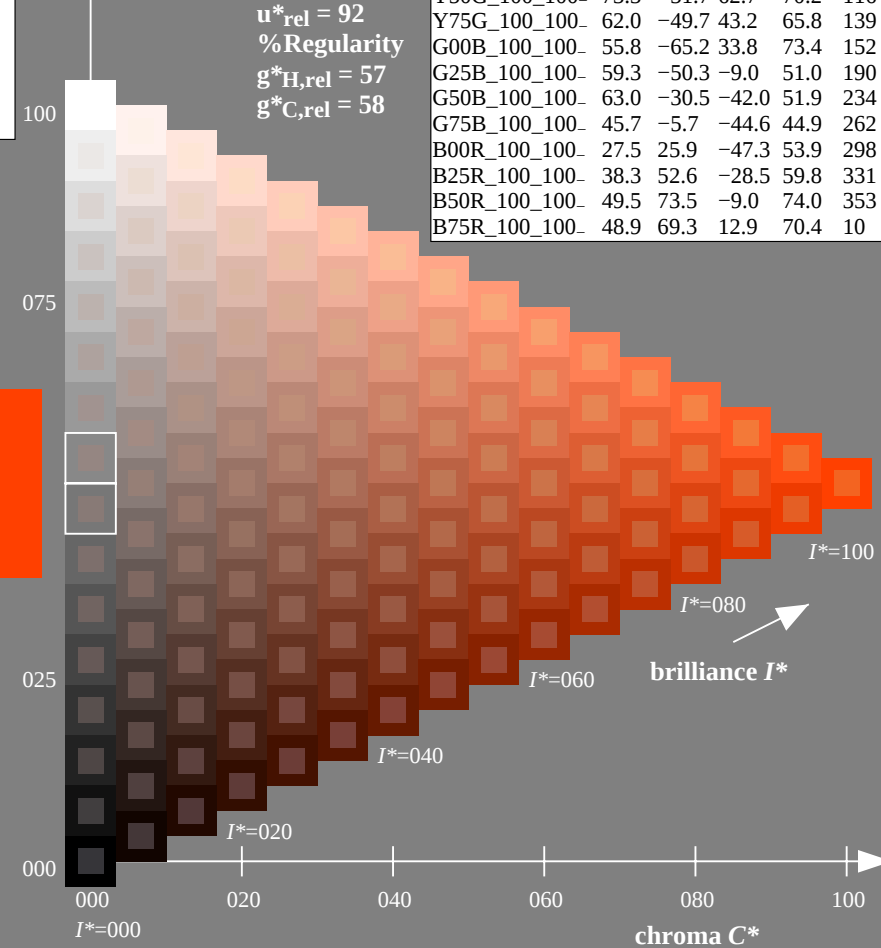
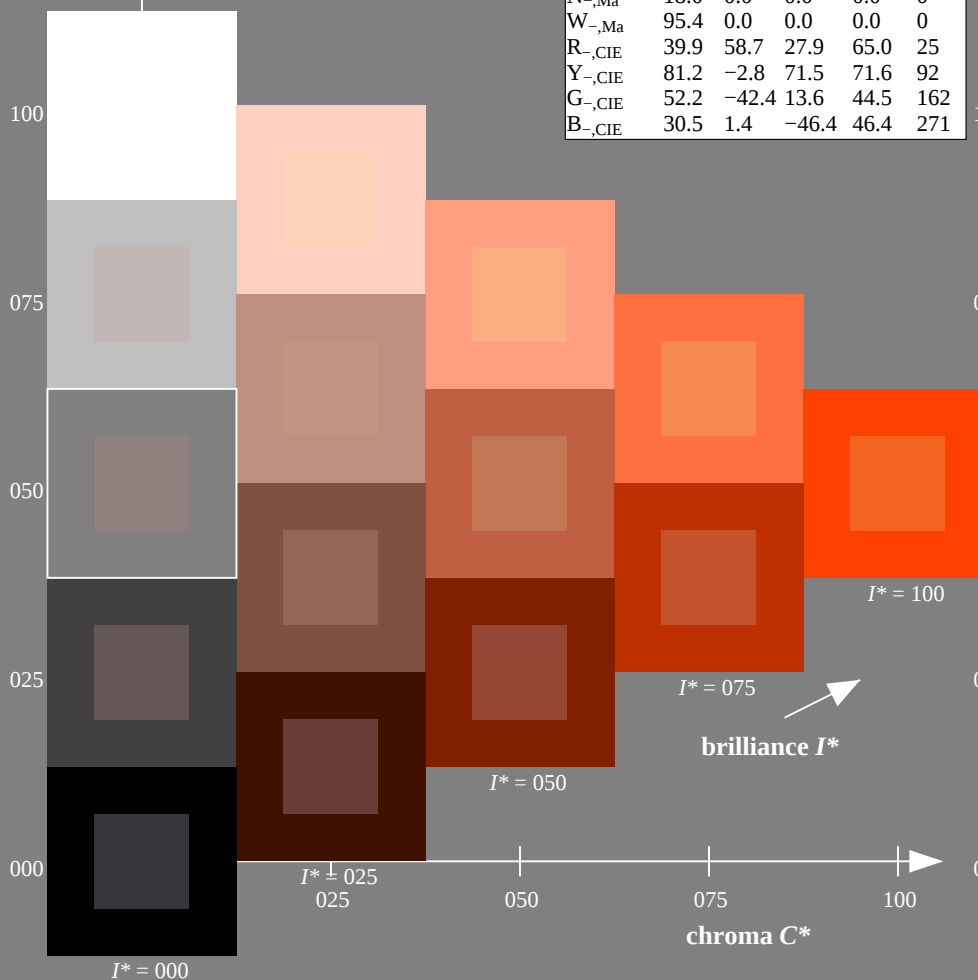
% Regularity

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

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

ORS20a; adapted (a) CIELAB data

H^*_-	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_	48.4	66.1	40.2	77.3	31
R25Y_100_100_	56.8	48.0	50.5	69.6	46
R50Y_100_100_	68.6	25.0	63.9	68.6	68
R75Y_100_100_	80.6	4.8	77.2	77.3	86
Y00G_100_100_	90.2	-9.6	88.2	88.7	96
Y25G_100_100_	83.2	-18.4	79.9	81.9	102
Y50G_100_100_	73.3	-31.7	62.7	70.2	116
Y75G_100_100_	62.0	-49.7	43.2	65.8	139
G00B_100_100_	55.8	-65.2	33.8	73.4	152
G25B_100_100_	59.3	-50.3	-9.0	51.0	190
G50B_100_100_	63.0	-30.5	-42.0	51.9	234
G75B_100_100_	45.7	-5.7	-44.6	44.9	262
B00R_100_100_	27.5	25.9	-47.3	53.9	298
B25R_100_100_	38.3	52.6	-28.5	59.8	331
B50R_100_100_	49.5	73.5	-9.0	74.0	353
B75R_100_100_	48.9	69.3	12.9	70.4	10



TUB-test chart QE08; hue code: $H^*_- = R25Y_-$
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 $h_{ab,a,rel} = h_{ab}/360 = 41/360 = 0.11$

$H^*_e = R25Y_e$

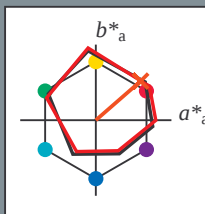
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = R25Y_e$

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):

$LabCh^*_e, Ma$: 50 59 51 78 41

HIC^*_e, Ma : R25Y_100_100_e

$rgbic^*_e, Ma$:

1.0 0.16 0.0 1.0 1.0

triangle lightness T^*

% Gamut

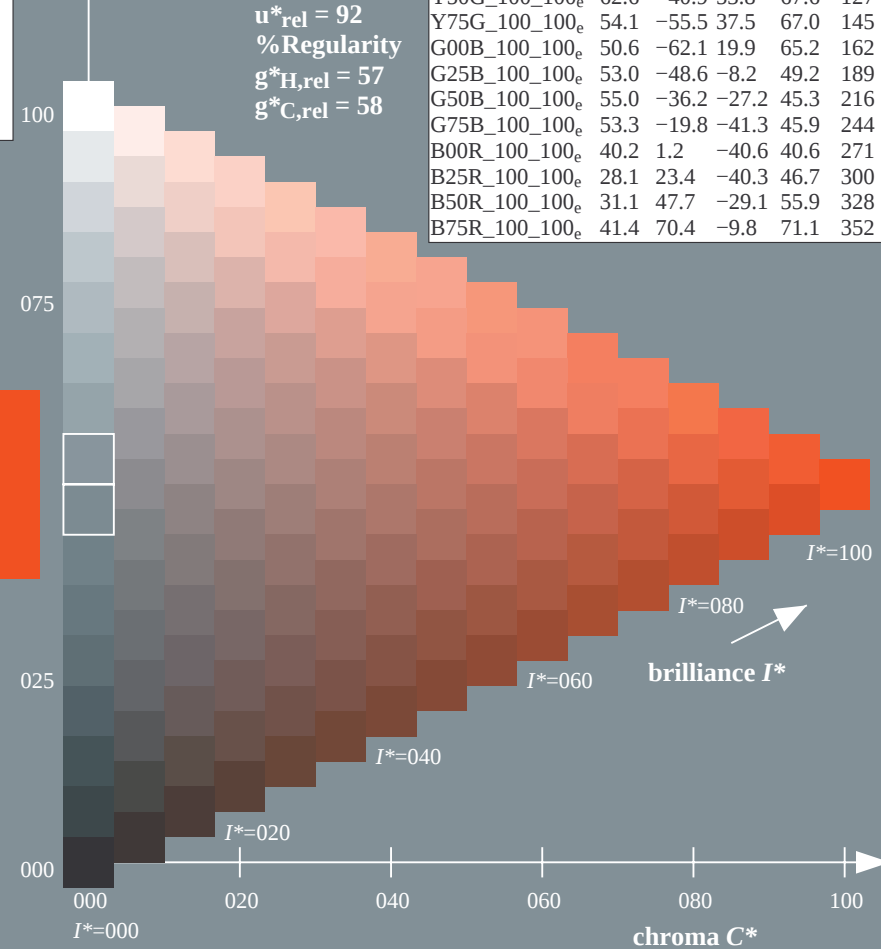
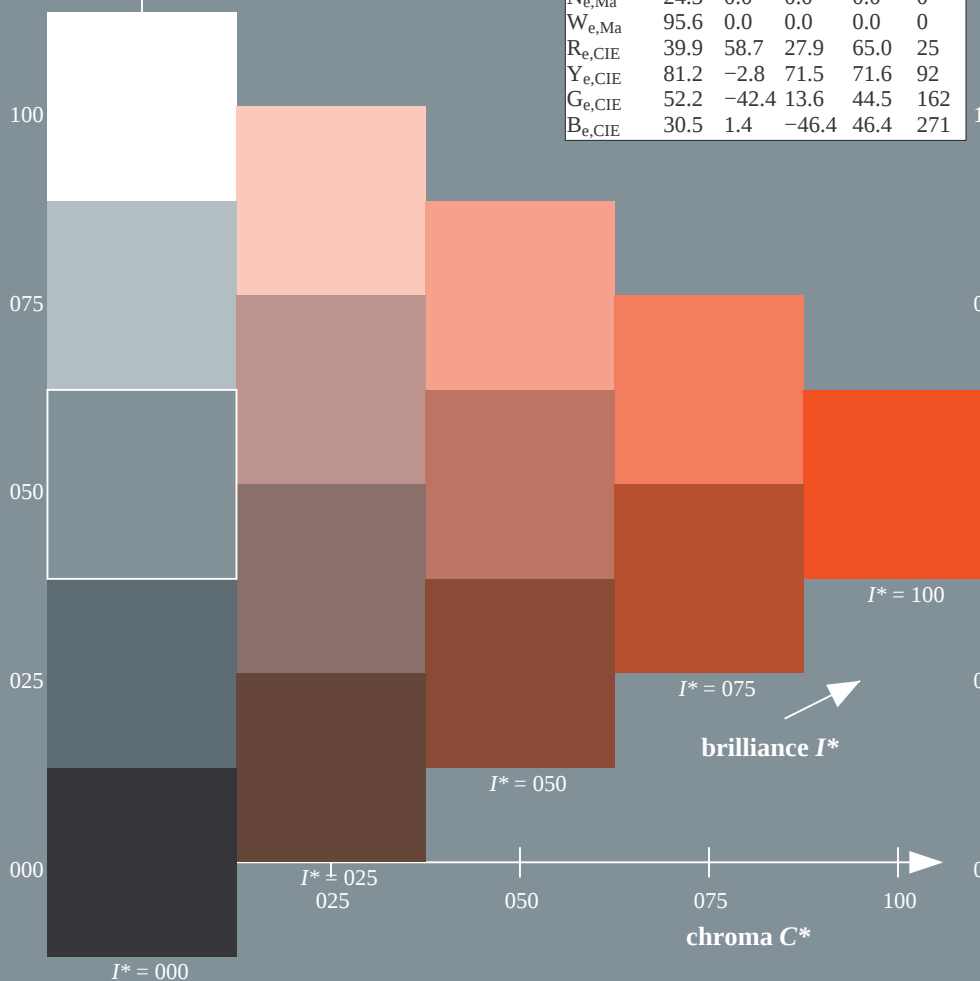
$u^*_{rel} = 92$

% 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



1-113131-L0 QE080-73

TUB-test chart QE08; hue code: $H^*_e = R25Y_e$
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 $h_{ab,a,rel} = h_{ab}/360 = 41/360 = 0.11$

$H^*_e = R25Y_e$

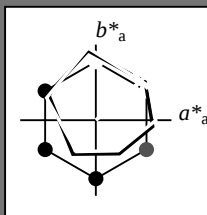
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = R25Y_e$

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):

$LabCh^*_e, Ma: 50\ 59\ 51\ 78\ 41$

$HIC^*_e, Ma: R25Y_100_100_e$

$rgbic^*_e, Ma:$

1.0 0.16 0.0 1.0 1.0

triangle lightness T^*

% Gamut

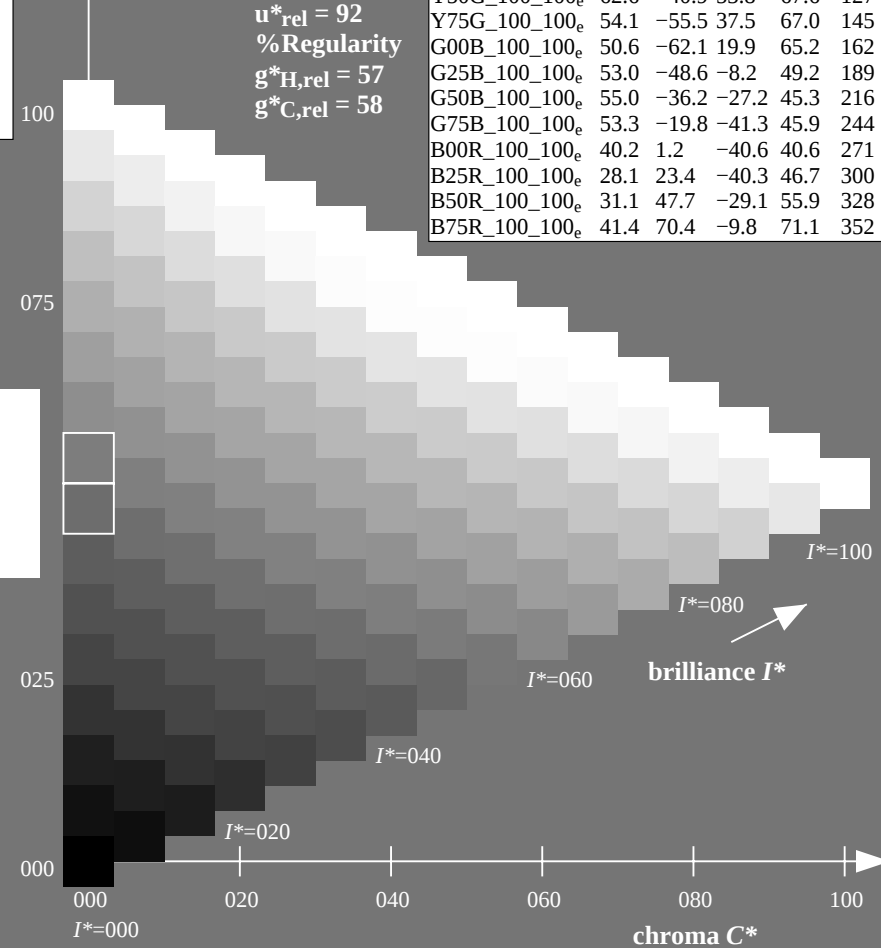
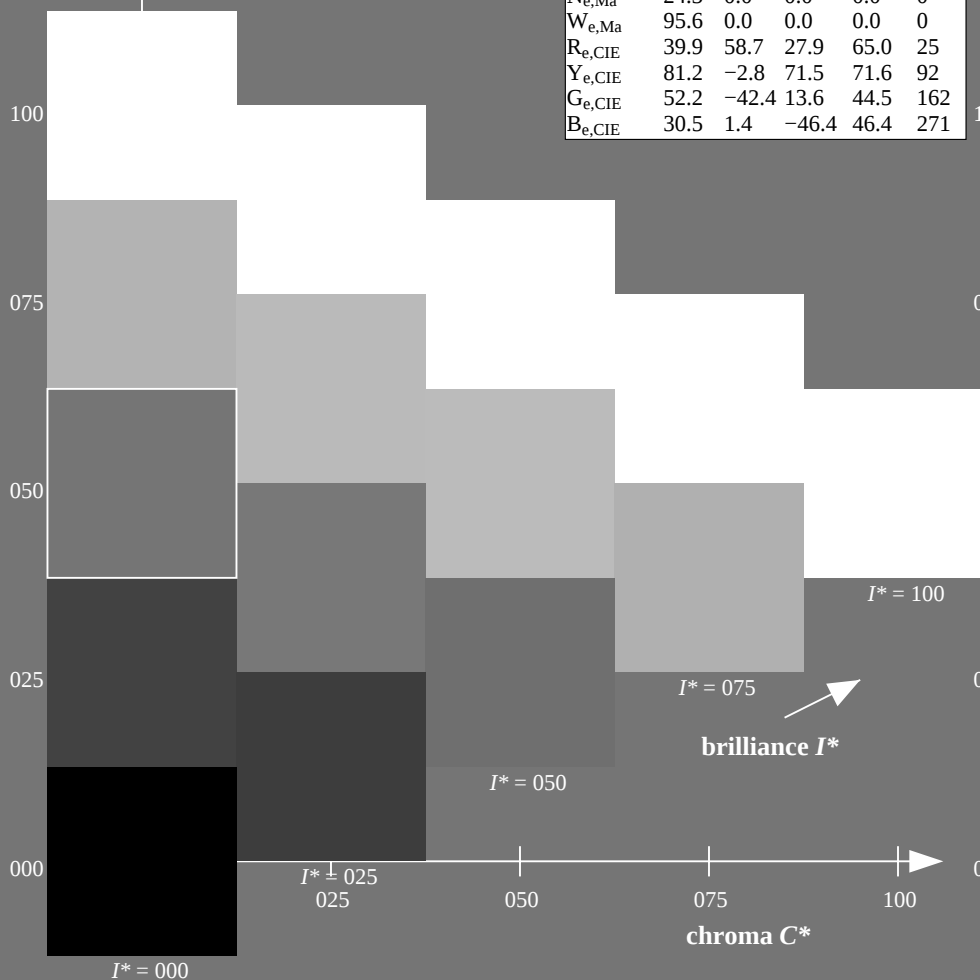
$u^*_{rel} = 92$

% 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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$G25B_100_100_e$	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 QE08; hue code: $H^*_e=R25Y_e$
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 $h_{ab,a,rel} = h_{ab}/360 = 41/360 = 0.11$

$H^*_e = R25Y_e$

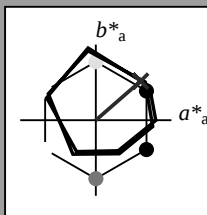
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = R25Y_e$

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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$B_{e,Ma}$	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):

$LabCh^*_{e,Ma}$: 50 59 51 78 41

$HIC^*_{e,Ma}$: R25Y_100_100_e

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

1.0 0.16 0.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 92$

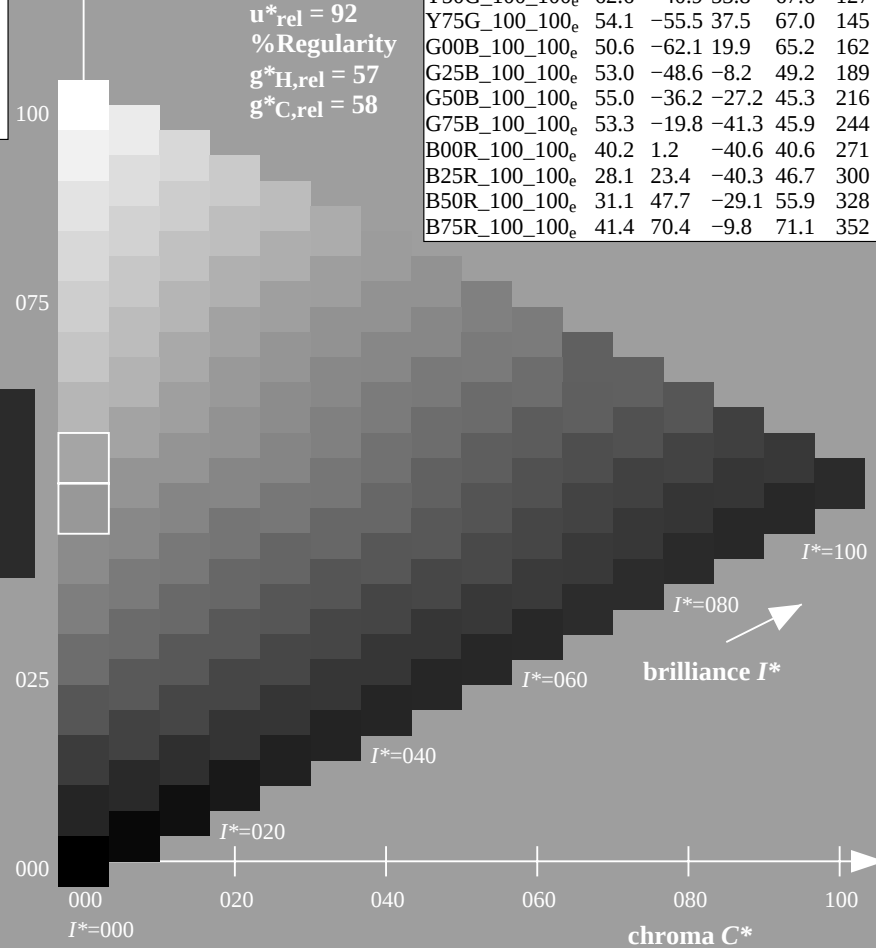
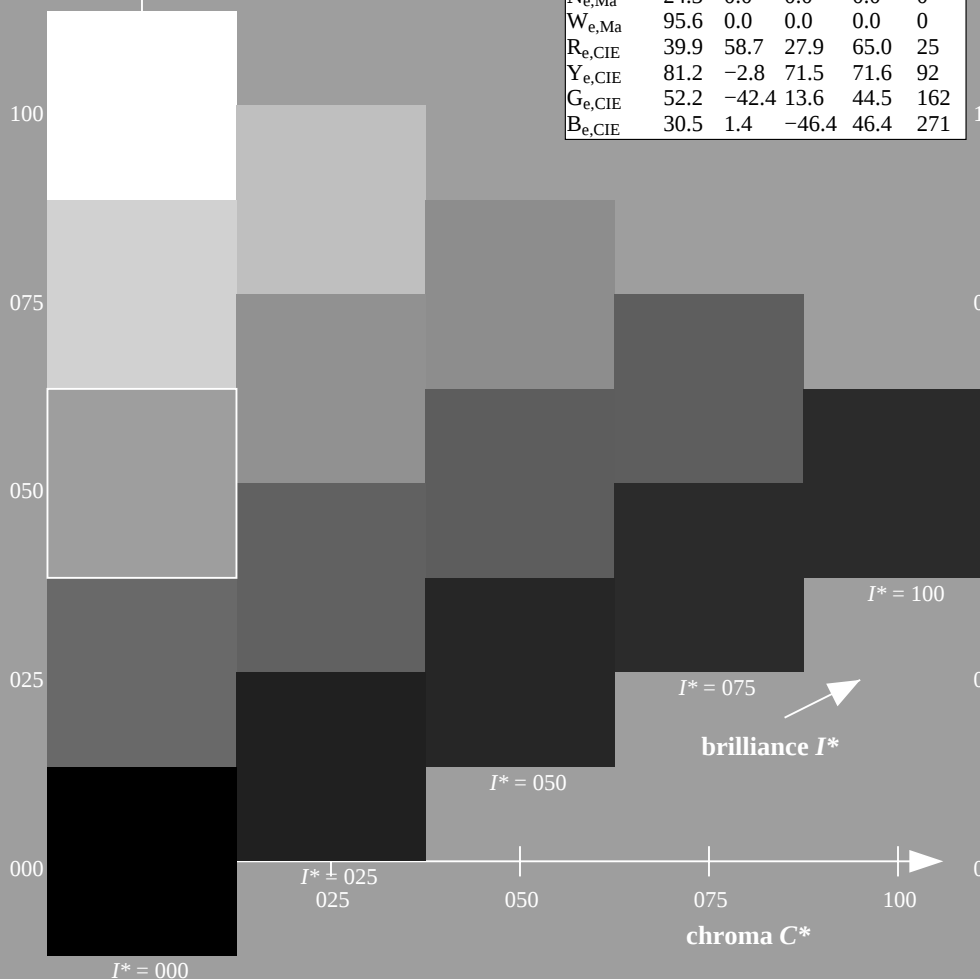
% Regularity

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

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

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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$G00B_{100_100_e}$	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
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$B25R_{100_100_e}$	28.1	23.4	-40.3	46.7	300
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TUB-test chart QE08; hue code: $H^*_e=R25Y_e$
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 $h_{ab,a,rel} = h_{ab}/360 = 41/360 = 0.11$

$H^*_e = R25Y_e$

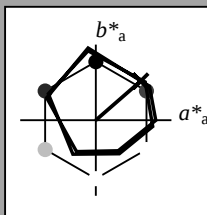
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = R25Y_e$

triangle lightness T^*



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$W_{e,Ma}$	95.6	0.0	0.0	0.0	0
$R_{e,CIE}$	39.9	58.7	27.9	65.0	25
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$G_{e,CIE}$	52.2	-42.4	13.6	44.5	162
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Data for maximum colour (Ma):

$LabCh^*_{e,Ma}$: 50 59 51 78 41

$HIC^*_{e,Ma}$: R25Y_100_100_e

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

1.0 0.16 0.0 1.0 1.0

triangle lightness T^*

% Gamut

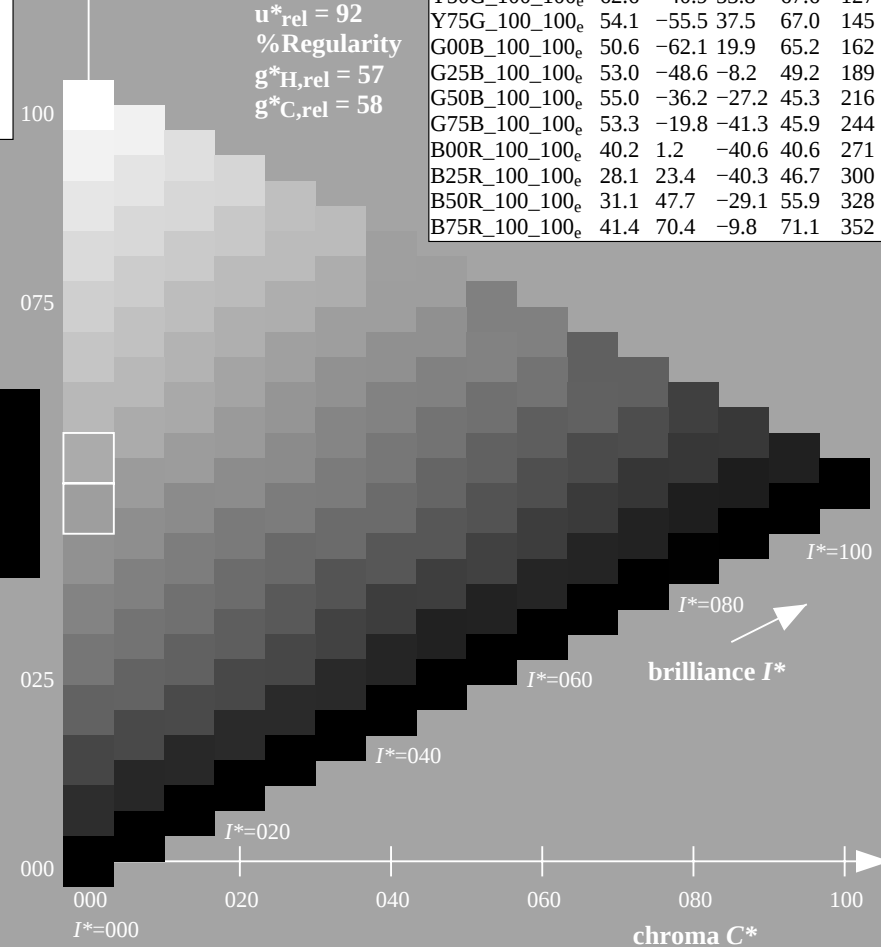
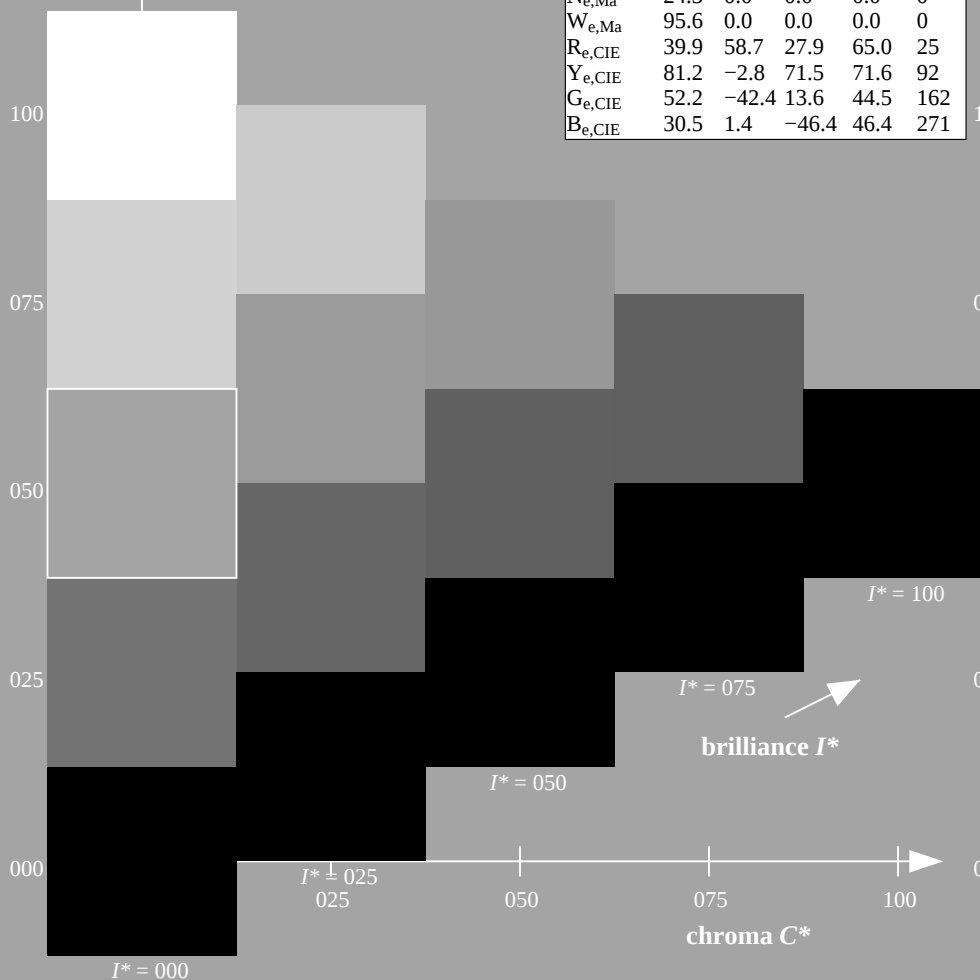
$u^*_{rel} = 92$

% Regularity

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

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

ORS20a; adapted (a) CIELAB data					
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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
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B75R_100_100 _e	41.4	70.4	-9.8	71.1	352



TUB-test chart QE08; hue code: $H^*_e=R25Y_e$
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-QE08/QE08L0FP.PDF /.PS
application for measurement of offset print output, separation $cmY0^*$ (CMY0)

TUB material: code=rha4ta

TUB registration: 20130201-QE08/QE08L0FP.PDF /.PS
application for measurement of offset print output, separation $cmY0^*$ (CMY0)

TUB material: code=rha4ta

http://130.149.60.45/~farbmetrik/QE08/QE08L0FP.PDF /.PS; 3D-linearization
F: 3D-linearization QE08/QE08LE30FP.DAT in file (F), page 6/33

see similar files: <http://130.149.60.45/~farbmetrik/QE08/QE08.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

1-113531-L0 QE080-73
TUB-test chart QE08; hue code: $H_e^* = R25Y_e$
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^* -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 QE080-73 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 QE08; hue code: $H^*_e=R25Y_e$
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

1-113631-F0

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

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd64M}			LAB^*_{ddx64M} (x=LabCh)					$rgb^*_{dxx361M}$			$LAB^*_{dxx361M}$ (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
38.1	37.5	33.8	1.0	0.125	0.0	48.9	62.8	49.4	79.9	38.1	1.0	0.117	0.0	48.7	63.4	49.1	80.2	37	1.0	0.1	0.0	48.2	64.5	48.6	80.7	37	1.0	0.021	0.0	46.0	69.6	45.7	83.3	33
46.8	45.0	42.1	1.0	0.25	0.0	53.6	51.9	55.5	76.0	46.8	1.0	0.25	0.0	53.7	52.0	55.5	76.0	46	1.0	0.223	0.0	52.7	54.4	54.4	76.9	45	1.0	0.183	0.0	51.1	57.9	52.5	78.1	42
56.9	52.5	50.5	1.0	0.375	0.0	59.1	40.3	62.0	74.0	56.9	1.0	0.367	0.0	58.8	41.1	61.7	74.2	56	1.0	0.313	0.0	56.5	46.2	59.1	75.0	52	1.0	0.288	0.0	55.4	48.5	57.8	75.4	49
67.1	60.0	58.8	1.0	0.5	0.0	64.9	28.9	68.6	74.5	67.1	1.0	0.5	0.0	64.9	28.9	68.7	74.5	67	1.0	0.412	0.0	60.9	37.1	64.2	74.2	60	1.0	0.398	0.0	60.3	38.3	63.5	74.1	58
78.6	67.5	67.2	1.0	0.625	0.0	72.1	15.4	77.1	78.6	78.6	1.0	0.617	0.0	71.6	16.5	76.7	78.4	77	1.0	0.498	0.0	64.8	29.1	68.6	74.5	67	1.0	0.494	0.0	64.6	29.5	68.4	74.5	66
86.2	75.0	75.6	1.0	0.75	0.0	77.9	5.4	83.8	84.0	86.2	1.0	0.75	0.0	77.9	5.5	83.9	84.1	86	1.0	0.585	0.0	69.8	20.0	74.7	77.4	75	1.0	0.592	0.0	70.2	19.3	75.2	77.6	75
92.1	82.5	83.9	1.0	0.875	0.0	83.4	-3.4	90.2	90.2	92.1	1.0	0.867	0.0	83.1	-2.7	89.8	89.9	91	1.0	0.68	0.0	74.7	11.3	80.3	81.1	82	1.0	0.703	0.0	75.8	9.4	81.5	82.0	83
96.1	90.0	92.3	1.0	1.0	0.0	87.8	-10.2	95.4	96.0	96.1	1.0	1.0	0.0	87.8	-10.1	95.5	96.0	96	1.0	0.829	0.0	81.4	0.0	88.0	88.0	90	1.0	0.879	0.0	83.6	-3.6	90.4	90.5	92
98.8	97.5	101.0	0.875	1.0	0.0	84.3	-13.9	89.2	90.3	98.8	0.883	1.0	0.0	84.6	-13.6	89.7	90.7	98	0.959	1.0	0.0	86.7	-11.4	93.5	94.2	97	0.807	1.0	0.0	82.4	-15.8	86.2	87.7	100
101.8	105.0	109.7	0.75	1.0	0.0	80.7	-17.5	83.5	85.3	101.8	0.75	1.0	0.0	80.8	-17.4	83.6	85.4	101	0.682	1.0	0.0	77.8	-21.2	79.4	82.2	105	0.583	1.0	0.0	73.7	-26.1	72.7	77.3	109
107.6	112.5	118.5	0.625	1.0	0.0	75.3	-24.0	75.7	79.4	107.6	0.633	1.0	0.0	75.7	-23.6	76.3	79.9	107	0.54	1.0	0.0	72.1	-28.0	69.5	75.0	112	0.434	1.0	0.0	68.0	-32.9	62.2	70.5	117
114.0	120.0	127.2	0.5	1.0	0.0	70.6	-29.7	66.5	72.8	114.0	0.5	1.0	0.0	70.6	-29.6	66.5	72.8	114	0.399	1.0	0.0	66.7	-34.5	59.9	69.2	120	0.322	1.0	0.0	62.6	-40.8	53.8	67.6	127
121.4	127.5	136.0	0.375	1.0	0.0	65.7	-35.6	58.3	68.3	121.4	0.383	1.0	0.0	66.1	-35.2	58.9	68.6	120	0.325	1.0	0.0	62.8	-40.6	54.0	67.6	127	0.249	1.0	0.0	58.4	-47.4	46.8	66.6	135
135.3	135.0	144.7	0.25	1.0	0.0	58.4	-47.3	46.8	66.6	135.3	0.25	1.0	0.0	58.4	-47.3	46.9	66.6	135	0.253	1.0	0.0	58.6	-47.0	47.1	66.7	135	0.122	1.0	0.0	54.6	-54.2	38.4	66.5	144
144.4	142.5	153.4	0.125	1.0	0.0	54.7	-53.9	38.5	66.3	144.4	0.133	1.0	0.0	55.0	-53.5	39.2	66.4	143	0.159	1.0	0.0	55.7	-52.3	40.9	66.4	142	0.03	1.0	0.0	51.2	-62.4	32.0	70.2	152
155.5	150.0	162.2	0.0	1.0	0.0	50.0	-65.0	29.6	71.4	155.5	0.0	1.0	0.0	50.1	-64.9	29.6	71.4	155	0.062	1.0	0.0	52.4	-59.6	34.5	68.9	150	0.0	1.0	0.151	50.7	-62.0	19.9	65.2	162
160.7	157.5	169.0	0.0	1.0	0.125	50.5	-62.8	21.9	66.5	160.7	0.0	1.0	0.117	50.5	-62.9	22.4	66.9	160	0.0	1.0	0.035	50.2	-64.4	27.4	70.0	157	0.0	1.0	0.261	51.3	-58.5	11.8	59.8	168
167.7	165.0	175.9	0.0	1.0	0.25	51.2	-58.9	12.7	60.3	167.7	0.0	1.0	0.25	51.2	-58.8	12.7	60.3	167	0.0	1.0	0.2	51.0	-60.5	16.2	62.8	165	0.0	1.0	0.364	52.0	-55.0	3.9	55.2	175
176.7	172.5	182.7	0.0	1.0	0.375	52.0	-54.5	3.1	54.6	176.7	0.0	1.0	0.367	52.0	-54.8	3.7	55.1	176	0.0	1.0	0.309	51.6	-57.0	8.0	57.7	172	0.0	1.0	0.43	52.5	-52.2	-2.0	52.3	182
189.3	180.0	189.6	0.0	1.0	0.5	52.9	-48.6	-8.0	49.3	189.3	0.0	1.0	0.5	53.0	-48.6	-7.9	49.3	189	0.0	1.0	0.407	52.3	-53.2	0.0	53.3	180	0.0	1.0	0.502	53.0	-48.5	-8.1	49.3	189
203.2	187.5	196.4	0.0	1.0	0.625	54.0	-42.3	-18.1	46.1	203.2	0.0	1.0	0.617	54.0	-42.8	-17.5	46.3	202	0.0	1.0	0.477	52.8	-49.9	-6.0	50.3	187	0.0	1.0	0.56	53.5	-45.9	-13.1	47.8	195
217.2	195.0	203.2	0.0	1.0	0.75	55.0	-36.0	-27.4	45.3	217.2	0.0	1.0	0.75	55.0	-35.9	-27.3	45.3	217	0.0	1.0	0.551	53.4	-46.3	-12.3	48.0	195	0.0	1.0	0.626	54.1	-42.3	-18.1	46.1	203
228.3	202.5	210.1	0.0	1.0	0.875	55.8	-30.7	-34.5	46.2	228.3	0.0	1.0	0.867	55.8	-31.0	-34.0	46.1	227	0.0	1.0	0.614	54.0	-42.9	-17.3	46.4	202	0.0	1.0	0.682	54.5	-39.6	-22.6	45.7	209
238.4	210.0	216.9	0.0	1.0	1.0	56.8	-25.5	-41.5	48.7	238.4	0.0	1.0	1.0	56.8	-25.4	-41.4	48.7	238	0.0	1.0	0.685	54.5	-39.5	-22.8	45.7	210	0.0	1.0	0.747	55.0	-36.1	-27.2	45.3	216
242.9	217.5	223.8	0.0	0.875	1.0	54.1	-21.1	-41.3	46.4	242.9	0.0	0.883	1.0	54.3	-21.4	-41.3	46.6	242	0.0	1.0	0.747	55.0	-36.1	-27.2	45.3	217	0.0	1.0	0.819	55.5	-33.2	-31.3	45.8	223
249.3	225.0	230.6	0.0	0.75	1.0	50.4	-15.5	-41.1	43.9	249.3	0.0	0.75	1.0	50.4	-15.4	-41.0	44.0	249	0.0	1.0	0.837	55.6	-32.4	-32.4	45.9	225	0.0	1.0	0.904	56.1	-29.6	-36.1	46.8	230
256.9	232.5	237.5	0.0	0.625	1.0	46.5	-9.4	-40.8	41.9	256.9	0.0	0.633	1.0	46.8	-9.8	-40.8	42.1	256	0.0	1.0	0.92	56.2	-28.9	-37.0	47.1	232	0.0	1.0	0.983	56.7	-26.2	-40.5	48.4	237
268.2	240.0	244.3	0.0	0.5	1.0	41.7	-1.2	-40.6	40.6	268.2	0.0	0.5	1.0	41.7	-1.1	-40.6	40.7	268	0.0	0.956	1.0	55.9	-23.9	-41.4	48.0	240	0.0	0.847	1.0	53.3	-19.8	-41.3	45.9	244
278.6	247.5	251.2	0.0	0.375	1.0	37.3	6.1	-40.2	40.7	278.6	0.0	0.383	1.0	37.6	5.6	-40.2	40.7	277	0.0	0.795	1.0	51.8	-17.4	-41.2	44.9	247	0.0	0.726	1.0	49.7	-14.3	-41.1	43.6	250
289.6	255.0	258.0	0.0	0.25	1.0	32.8	14.3	-40.2	42.7	289.6	0.0	0.25	1.0	32.9	14.4	-40.1	42.7	289	0.0	0.657	1.0	47.5	-10.9	-40.9	42.5	255	0.0	0.613	1.0	46.1	-8.6	-40.8	41.9	258
299.0	262.5	264.8	0.0	0.125	1.0	28.6	22.4	-40.2	46.1	299.0	0.0	0.133	1.0	28.9	21.9	-40.2	45.9	298	0.0	0.569	1.0	44.4	-5.7	-40.9	41.4	262	0.0	0.542	1.0	43.4	-3.9	-40.8	41.1	264
306.2	270.0	271.7	0.0	0.0	1.0	25.0	29.5	-40.4	50.0	306.2	0.0	0.0	1.0	25.1	29.6	-40.3	50.1	306	0.0	0.479	1.0	41.0	0.0	-40.6	40.7	270	0.0	0.458	1.0	40.3	1.2	-40		

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

QE080-73

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 QE08; hue code: $H^*_e=R25Y_e$
48 step hue circles; $rgb-LabCh^*$ tables

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

TUB registration: 20130201-QE08/QE08L0FP.PDF /.PS
application for measurement of offset print output, separation cmy0* (CMY0)
TUB material: code=rha4ta

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

Six hue angles of the device colours <i>RYGCBM</i> _d : <i>h</i> _{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8; Six hue angles of the elementary colours <i>RYGCBM</i> _e : <i>h</i> _{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6																
<i>h</i> _{ab,d}	<i>h</i> _{ab,s}	<i>h</i> _{ab,e}	<i>rgb</i> [*] _{dd361M}	<i>LAB</i> [*] _{ddx361Mi} (<i>x</i> =LabCh)	<i>R</i> _d	<i>rgb</i> [*] _{ds361Mi}	<i>LAB</i> [*] _{dsx361Mi} (<i>x</i> =LabCh)	<i>R</i> _s	<i>rgb</i> [*] _{dd361Mi}	<i>rgb</i> [*] _{de361Mi}	<i>LAB</i> [*] _{dex361Mi} (<i>x</i> =LabCh)	<i>R</i> _e	<i>rgb</i> [*] _{dd361Mi}	<i>rgb</i> [*] _{ds}	<i>rgb</i> [*] _{de}	
32	30	25	1.0	0.0	0.0	45.4	70.9	44.8	83.9	32	1.0	0.0	0.0	0.0	0.0	0.0
33	31	26	1.0	0.016	0.0	45.9	69.8	45.5	83.4	33	1.0	0.0	0.017	0.0	0.0	0.0
33	32	27	1.0	0.033	0.0	46.3	68.8	46.1	82.8	33	1.0	0.0	0.033	0.0	0.0	0.0
34	33	28	1.0	0.05	0.0	46.8	67.7	46.8	82.3	34	1.0	0.0	0.05	0.0	0.0	0.0
35	34	29	1.0	0.066	0.0	47.3	66.6	47.4	81.8	35	1.0	0.0	0.067	0.0	0.0	0.0
36	35	31	1.0	0.083	0.0	47.7	65.5	48.0	81.2	36	1.0	0.0	0.083	0.0	0.0	0.0
36	36	32	1.0	0.1	0.0	48.2	64.4	48.5	80.7	36	1.0	0.0	0.1	0.0	0.0	0.0
37	37	33	1.0	0.116	0.0	48.6	63.3	49.1	80.2	37	1.0	0.021	0.0	0.0	0.0	0.0
38	38	34	1.0	0.133	0.0	49.2	62.1	49.8	79.6	38	1.0	0.044	0.0	0.0	0.0	0.0
39	39	35	1.0	0.15	0.0	49.8	60.7	50.7	79.1	39	1.0	0.068	0.0	0.0	0.0	0.0
41	40	36	1.0	0.166	0.0	50.5	59.2	51.6	78.6	41	1.0	0.092	0.0	0.0	0.0	0.0
42	41	37	1.0	0.183	0.0	51.1	57.8	52.5	78.1	42	1.0	0.116	0.0	0.0	0.0	0.0
43	42	38	1.0	0.2	0.0	51.7	56.3	53.3	77.5	43	1.0	0.135	0.0	0.0	0.0	0.0
44	43	39	1.0	0.216	0.0	52.4	54.9	54.0	77.0	44	1.0	0.151	0.0	0.0	0.0	0.0
45	44	41	1.0	0.233	0.0	53.0	53.4	54.8	76.5	45	1.0	0.167	0.0	0.0	0.0	0.0
46	45	42	1.0	0.25	0.0	53.6	51.9	55.5	76.0	46	1.0	0.183	0.0	0.0	0.0	0.0
48	46	43	1.0	0.266	0.0	54.4	50.4	56.5	75.7	48	1.0	0.198	0.0	0.0	0.0	0.0
49	47	44	1.0	0.283	0.0	55.1	48.9	57.4	75.4	49	1.0	0.214	0.0	0.0	0.0	0.0
50	48	45	1.0	0.3	0.0	55.8	47.4	58.4	75.2	50	1.0	0.23	0.0	0.0	0.0	0.0
52	49	46	1.0	0.316	0.0	56.6	45.8	59.2	74.9	52	1.0	0.246	0.0	0.0	0.0	0.0
53	50	47	1.0	0.333	0.0	57.3	44.2	60.1	74.6	53	1.0	0.261	0.0	0.0	0.0	0.0
54	51	48	1.0	0.35	0.0	58.0	42.7	60.9	74.4	54	1.0	0.274	0.0	0.0	0.0	0.0
56	52	49	1.0	0.366	0.0	58.8	41.1	61.7	74.1	56	1.0	0.288	0.0	0.0	0.0	0.0
57	53	51	1.0	0.383	0.0	59.5	39.5	62.5	74.0	57	1.0	0.302	0.0	0.0	0.0	0.0
59	54	52	1.0	0.4	0.0	60.3	38.1	63.5	74.1	59	1.0	0.316	0.0	0.0	0.0	0.0
60	55	53	1.0	0.416	0.0	61.0	36.6	64.5	74.1	60	1.0	0.33	0.0	0.0	0.0	0.0
61	56	54	1.0	0.433	0.0	61.8	35.1	65.4	74.2	61	1.0	0.343	0.0	0.0	0.0	0.0
63	57	55	1.0	0.45	0.0	62.6	33.6	66.2	74.3	63	1.0	0.357	0.0	0.0	0.0	0.0
64	58	56	1.0	0.466	0.0	63.3	32.0	67.1	74.4	64	1.0	0.371	0.0	0.0	0.0	0.0
65	59	57	1.0	0.483	0.0	64.1	30.5	67.9	74.4	65	1.0	0.385	0.0	0.0	0.0	0.0
67	60	58	1.0	0.5	0.0	64.9	28.9	68.6	74.5	67	1.0	0.398	0.0	0.0	0.0	0.0
68	61	60	1.0	0.516	0.0	65.8	27.2	69.9	75.0	68	1.0	0.412	0.0	0.0	0.0	0.0
70	62	61	1.0	0.533	0.0	66.8	25.5	71.1	75.6	70	1.0	0.426	0.0	0.0	0.0	0.0
71	63	62	1.0	0.55	0.0	67.7	23.8	72.3	76.1	71	1.0	0.439	0.0	0.0	0.0	0.0
73	64	63	1.0	0.566	0.0	68.7	22.0	73.5	76.7	73	1.0	0.453	0.0	0.0	0.0	0.0
74	65	64	1.0	0.583	0.0	69.7	20.2	74.6	77.3	74	1.0	0.467	0.0	0.0	0.0	0.0
76	66	65	1.0	0.6	0.0	70.6	18.3	75.6	77.8	76	1.0	0.48	0.0	0.0	0.0	0.0
77	67	66	1.0	0.616	0.0	71.6	16.4	76.6	78.4	77	1.0	0.494	0.0	0.0	0.0	0.0
79	68	67	1.0	0.633	0.0	72.5	14.8	77.6	79.0	79	1.0	0.507	0.0	0.0	0.0	0.0
80	69	68	1.0	0.65	0.0	73.2	13.6	78.5	79.7	80	1.0	0.519	0.0	0.0	0.0	0.0
81	70	70	1.0	0.666	0.0	74.0	12.3	79.5	80.4	81	1.0	0.531	0.0	0.0	0.0	0.0
82	71	71	1.0	0.683	0.0	74.8	11.0	80.4	81.1	82	1.0	0.543	0.0	0.0	0.0	0.0
83	72	72	1.0	0.7	0.0	75.6	9.6	81.3	81.9	83	1.0	0.555	0.0	0.0	0.0	0.0
84	73	73	1.0	0.716	0.0	76.3	8.3	82.2	82.6	84	1.0	0.568	0.0	0.0	0.0	0.0
85	74	74	1.0	0.733	0.0	77.1	6.9	83.0	83.3	85	1.0	0.58	0.0	0.0	0.0	0.0
86	75	75	1.0	0.75	0.0	77.9	5.4	83.8	84.0	86	1.0	0.592	0.0	0.0	0.0	0.0

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

Angles of the three colour RGB* (x=LabCh)										Angles of the elementary colours RGB* (x=LabCh)										Angles of the three colour RGB* (x=LabCh)										Angles of the elementary colours RGB* (x=LabCh)		
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{dd361Mi}$	$LAB^*_{ddx361Mi}$ (x=LabCh)	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}$ (x=LabCh)	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi}$ (x=LabCh)	$rgb^*_{dd361Mi}$	$rgb^*_{ds361Mi}$	$rgb^*_{de361Mi}$																				
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	77.9	5.4	83.8	84.0	86									
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	78.6	4.3	84.7	84.8	87									
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	79.4	3.2	85.6	85.7	87									
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	80.1	2.0	86.5	86.5	88									
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	80.8	0.8	87.3	87.3	89									
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	81.6	-0.3	88.2	88.2	90									
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	82.3	-1.5	89.0	89.0	91									
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	83.1	-2.8	89.8	89.8	91									
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	83.7	-3.8	90.5	90.6	92									
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	84.3	-4.7	91.3	91.4	92									
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	84.9	-5.6	92.0	92.2	93									
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	85.5	-6.5	92.7	92.9	94									
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	86.0	-7.4	93.4	93.7	94									
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	86.6	-8.3	94.1	94.5	95									
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	87.2	-9.2	94.8	95.2	95									
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	87.8	-10.2	95.4	96.0	96									
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	87.3	-10.7	94.6	95.2	96									
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	86.8	-11.2	93.8	94.5	96									
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	86.4	-11.7	93.0	93.7	97									
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	85.9	-12.2	92.2	93.0	97									
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	85.5	-12.7	91.3	92.2	97									
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	85.0	-13.2	90.5	91.5	98									
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	84.5	-13.6	89.7	90.7	98									
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	84.1	-14.1	88.9	90.0	99									
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	83.6	-14.6	88.1	89.3	99									
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	83.1	-15.1	87.4	88.7	99									
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	82.6	-15.6	86.6	88.0	100									
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	82.2	-16.1	85.8	87.3	100									
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	81.7	-16.6	85.1	86.7	101									
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	81.2	-17.0	84.3	86.0	101									
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	80.7	-17.5	83.5	85.3	101									
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	80.0	-18.4	82.5	84.6	102									
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	79.3	-19.3	81.5	83.8	103									
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	78.5	-20.2	80.5	83.0	104									
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	77.8	-21.1	79.4	82.2	104									
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	77.1	-22.0	78.4	81.4	105									
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	76.4	-22.8	77.3	80.6	106									
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	75.6	-23.6	76.2	79.8	107									
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	75.0	-24.4	75.1	79.0	108									
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	74.3	-25.3	73.9	78.1	108									
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	73.7	-26.1	72.7	77.2	109									
110	116	122	0.566	1.0 0.0	73.1	-26.9	71.4	76.3	110	0.467	1.0 0.0	69.3	-31.3	64.4	71.7	116	0.567	1.0 0.0	73.1	-26.9	71.4	76.3	110									
111	117	123	0.55	1.0 0.0	72.4	-27.6	70.2	75.5	111	0.45	1.0 0.0	68.7	-32.2	63.3	71.0	117	0.55	1.0 0.0	72.4	-27.6	70.2	75.5	111									
112	118	124	0.533	1.0 0.0	71.8	-28.3	69.0	74.6	112	0.433	1.0 0.0	68.0	-33.0	62.2	70.4	118	0.533	1.0 0.0	71.8	-28.3	69.0	74.6	112									
113	119	126	0.516	1.0 0.0	71.2	-29.0	67.7	73.7	113	0.416	1.0 0.0	67.3	-33.7	61.1	69.8	119	0.517	1.0 0.0	71.2	-29.0	67.7	73.7	113									
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	70.6	-29.7	66.5	72.8	114									

1-1131031-L0 QE080-73 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 QE08; hue code: $H^*_e=R25Y_e$
48 step hue circles; $rgb-LabCh$ *tables

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

TUB registration: 20130201-QE08/QE08L0FP.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 $RYGCBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Six hue angles of the device colours <i>RYGCBM</i> _d : <i>h</i> _{ab,d} = 32.3, 96.1, 155.5, 238.4, 306.2, 359.8; Six hue angles of the elementary colours <i>RYGCBM</i> _e : <i>h</i> _{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6																										
<i>h</i> _{ab,d}	<i>h</i> _{ab,s}	<i>h</i> _{ab,e}	<i>rgb</i> [*] _{dd361M}	<i>LAB</i> [*] _{ddx361Mi} (x=LabCh)	<i>rgb</i> [*] _{ds361Mi}	<i>LAB</i> [*] _{dsx361Mi} (x=LabCh)	<i>rgb</i> [*] _{dd361Mi}	<i>rgb</i> [*] _{de361Mi}	<i>LAB</i> [*] _{dex361Mi} (x=LabCh)	<i>rgb</i> [*] _{dd361Mi}	<i>rgb</i> [*] _{da}	<i>rgb</i> [*] _{ds}	<i>rgb</i> [*] _{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	<i>G</i> _d 0.062	1.0	0.0	52.4	-59.6 34.5 68.9	150	<i>G</i> _s 0.0	1.0	0.0	0.0	1.0	0.151	50.7	-62.0 19.9 65.2	162	<i>G</i> _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												

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 $RYGCBM_c$: $h_{ab,c} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$													
$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{ddx361Mi}$ (x=LabCh)	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi}$ (x=LabCh)	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi}$ (x=LabCh)	$rgb^*_{dd361Mi}$	$rgb^*_{dd361Mi}$	rgb^*_{ds}	rgb^*_{de}
167	165	175	0.0	1.0	0.25	51.2	-58.9	12.7	60.3	167	0.0	1.0	0.25
168	166	176	0.0	1.0	0.266	51.3	-58.4	11.3	59.5	168	0.0	1.0	0.267
170	167	177	0.0	1.0	0.283	51.4	-57.9	10.0	58.8	170	0.0	1.0	0.283
171	168	178	0.0	1.0	0.3	51.5	-57.3	8.7	58.0	171	0.0	1.0	0.3
172	169	179	0.0	1.0	0.316	51.6	-56.8	7.4	57.3	172	0.0	1.0	0.317
173	170	180	0.0	1.0	0.333	51.7	-56.2	6.1	56.5	173	0.0	1.0	0.333
174	171	181	0.0	1.0	0.35	51.8	-55.5	4.9	55.8	174	0.0	1.0	0.35
176	172	182	0.0	1.0	0.366	51.9	-54.9	3.7	55.0	176	0.0	1.0	0.367
177	173	183	0.0	1.0	0.383	52.0	-54.2	2.3	54.3	177	0.0	1.0	0.383
179	174	184	0.0	1.0	0.4	52.2	-53.6	0.7	53.6	179	0.0	1.0	0.4
180	175	185	0.0	1.0	0.416	52.3	-52.8	-0.8	52.9	180	0.0	1.0	0.417
182	176	185	0.0	1.0	0.433	52.4	-52.1	-2.3	52.1	182	0.0	1.0	0.433
184	177	186	0.0	1.0	0.45	52.6	-51.3	-3.8	51.4	184	0.0	1.0	0.45
185	178	187	0.0	1.0	0.466	52.7	-50.4	-5.3	50.7	185	0.0	1.0	0.467
187	179	188	0.0	1.0	0.483	52.8	-49.6	-6.6	50.0	187	0.0	1.0	0.483
189	180	189	0.0	1.0	0.5	52.9	-48.6	-8.0	49.3	189	0.0	1.0	0.5
191	181	190	0.0	1.0	0.516	53.1	-47.9	-9.5	48.9	191	0.0	1.0	0.517
193	182	191	0.0	1.0	0.533	53.2	-47.2	-10.9	48.4	193	0.0	1.0	0.533
194	183	192	0.0	1.0	0.55	53.4	-46.4	-12.3	48.0	194	0.0	1.0	0.55
196	184	193	0.0	1.0	0.566	53.5	-45.6	-13.7	47.6	196	0.0	1.0	0.567
198	185	194	0.0	1.0	0.583	53.6	-44.7	-15.0	47.1	198	0.0	1.0	0.583
200	186	195	0.0	1.0	0.6	53.8	-43.8	-16.3	46.7	200	0.0	1.0	0.6
202	187	195	0.0	1.0	0.616	53.9	-42.8	-17.5	46.3	202	0.0	1.0	0.617
204	188	196	0.0	1.0	0.633	54.1	-42.0	-18.8	46.0	204	0.0	1.0	0.633
206	189	197	0.0	1.0	0.65	54.2	-41.2	-20.1	45.9	206	0.0	1.0	0.65
207	190	198	0.0	1.0	0.666	54.3	-40.5	-21.4	45.8	207	0.0	1.0	0.667
209	191	199	0.0	1.0	0.683	54.5	-39.7	-22.7	45.7	209	0.0	1.0	0.683
211	192	200	0.0	1.0	0.7	54.6	-38.8	-23.9	45.6	211	0.0	1.0	0.7
213	193	201	0.0	1.0	0.716	54.7	-37.9	-25.1	45.5	213	0.0	1.0	0.717
215	194	202	0.0	1.0	0.733	54.9	-37.0	-26.3	45.4	215	0.0	1.0	0.733
217	195												

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

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}			$LAB^*_{ddx361Mi} (x=LabCh)$				C_d	$rgb^*_{ds361Mi}$			$LAB^*_{dsx361Mi} (x=LabCh)$				$210C_s$	$rgb^*_{dd361Mi}$			$rgb^*_{de361Mi}$				$LAB^*_{dex361Mi} (x=LabCh)$				$216C_e$	$rgb^*_{dd361Mi}$			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	0.0	1.0	0.747	55.0	-36.1	-27.2	45.3	216	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	1.0	0.757	55.1	-35.7	-27.8	45.4	217	0.0	0.983	1.0				
239	212	218	0.0	0.966	1.0	56.1	-24.3	-41.5	48.1	239	0.0	1.0	0.703	54.7	-38.6	-24.1	45.6	212	0.0	0.967	1.0	0.0	1.0	0.767	55.2	-35.3	-28.4	45.4	218	0.0	0.967	1.0				
240	213	219	0.0	0.95	1.0	55.7	-23.7	-41.5	47.8	240	0.0	1.0	0.712	54.7	-38.1	-24.7	45.6	213	0.0	0.95	1.0	0.0	1.0	0.778	55.2	-34.9	-29.0	45.5	219	0.0	0.95	1.0				
240	214	220	0.0	0.933	1.0	55.4	-23.1	-41.5	47.5	240	0.0	1.0	0.721	54.8	-37.6	-25.3	45.5	214	0.0	0.933	1.0	0.0	1.0	0.788	55.3	-34.5	-29.6	45.6	220	0.0	0.933	1.0				
241	215	221	0.0	0.916	1.0	55.0	-22.5	-41.4	47.2	241	0.0	1.0	0.73	54.9	-37.1	-26.0	45.4	215	0.0	0.917	1.0	0.0	1.0	0.798	55.4	-34.1	-30.2	45.7	221	0.0	0.917	1.0				
242	216	222	0.0	0.9	1.0	54.6	-22.0	-41.4	46.9	242	0.0	1.0	0.739	55.0	-36.6	-26.6	45.4	216	0.0	0.9	1.0	0.0	1.0	0.808	55.4	-33.6	-30.8	45.7	222	0.0	0.9	1.0				
242	217	223	0.0	0.883	1.0	54.3	-21.4	-41.4	46.6	242	0.0	1.0	0.747	55.0	-36.1	-27.2	45.3	217	0.0	0.883	1.0	0.0	1.0	0.819	55.5	-33.2	-31.3	45.8	223	0.0	0.883	1.0				
243	218	224	0.0	0.866	1.0	53.9	-20.7	-41.3	46.3	243	0.0	1.0	0.758	55.1	-35.6	-27.8	45.4	218	0.0	0.867	1.0	0.0	1.0	0.829	55.6	-32.7	-31.9	45.9	224	0.0	0.867	1.0				
244	219	225	0.0	0.85	1.0	53.4	-20.0	-41.3	45.9	244	0.0	1.0	0.769	55.2	-35.2	-28.5	45.4	219	0.0	0.85	1.0	0.0	1.0	0.839	55.6	-32.3	-32.5	45.9	225	0.0	0.85	1.0				
245	220	226	0.0	0.833	1.0	52.9	-19.2	-41.3	45.6	245	0.0	1.0	0.781	55.3	-34.8	-29.2	45.5	220	0.0	0.833	1.0	0.0	1.0	0.85	55.7	-31.8	-33.1	46.0	226	0.0	0.833	1.0				
245	221	227	0.0	0.816	1.0	52.4	-18.5	-41.3	45.3	245	0.0	1.0	0.792	55.3	-34.3	-29.8	45.6	221	0.0	0.817	1.0	0.0	1.0	0.86	55.8	-31.3	-33.6	46.1	227	0.0	0.817	1.0				
246	222	227	0.0	0.8	1.0	51.9	-17.7	-41.3	44.9	246	0.0	1.0	0.803	55.4	-33.9	-30.5	45.7	222	0.0	0.8	1.0	0.0	1.0	0.87	55.8	-30.8	-34.2	46.2	227	0.0	0.8	1.0				
247	223	228	0.0	0.783	1.0	51.4	-17.0	-41.2	44.6	247	0.0	1.0	0.815	55.5	-33.4	-31.1	45.8	223	0.0	0.783	1.0	0.0	1.0	0.881	55.9	-30.4	-34.8	46.3	228	0.0	0.783	1.0				
248	224	229	0.0	0.766	1.0	50.9	-16.2	-41.2	44.2	248	0.0	1.0	0.826	55.6	-32.9	-31.7	45.8	224	0.0	0.767	1.0	0.0	1.0	0.893	56.0	-30.0	-35.4	46.6	229	0.0	0.767	1.0				
249	225	230	0.0	0.75	1.0	50.4	-15.5	-41.1	43.9	249	0.0	1.0	0.837	55.6	-32.4	-32.4	45.9	225	0.0	0.75	1.0	0.0	1.0	0.904	56.1	-29.6	-36.1	46.8	230	0.0	0.75	1.0				
250	226	231	0.0	0.733	1.0	49.9	-14.7	-41.1	43.6	250	0.0	1.0	0.849	55.7	-31.9	-33.0	46.0	226	0.0	0.733	1.0	0.0	1.0	0.915	56.2	-29.1	-36.7	47.0	231	0.0	0.733	1.0				
251	227	232	0.0	0.716	1.0	49.4	-13.8	-41.1	43.4	251	0.0	1.0	0.86	55.8	-31.3	-33.6	46.1	227	0.0	0.717	1.0	0.0	1.0	0.926	56.3	-28.7	-37.4	47.2	232	0.0	0.717	1.0				
252	228	233	0.0	0.7	1.0	48.8	-13.0	-41.1	43.1	252	0.0	1.0	0.871	55.9	-30.8	-34.2	46.2	228	0.0	0.7	1.0	0.0	1.0	0.938	56.3	-28.2	-38.0	47.5	233	0.0	0.7	1.0				
253	229	234	0.0	0.683	1.0	48.3	-12.2	-41.1	42.9	253	0.0	1.0	0.883	55.9	-30.3	-34.9	46.4	229	0.0	0.683	1.0	0.0	1.0	0.949	56.4	-27.7	-38.6	47.7	234	0.0	0.683	1.0				
254	230	235	0.0	0.666	1.0	47.8	-11.4	-41.0	42.6	254	0.0	1.0	0.896	56.0	-29.9	-35.6	46.6	230	0.0	0.667	1.0	0.0	1.0	0.96	56.5	-27.2	-39.3	47.9	235	0.0	0.667	1.0				
255	231	236	0.0	0.65	1.0	47.3	-10.6	-41.0	42.3	255	0.0	1.0	0.908	56.1	-29.4	-36.3	46.9	231	0.0	0.65	1.0	0.0	1.0	0.972	56.6	-26.7	-39.9	48.2	236	0.0	0.65	1.0				
256	232	237	0.0	0.633	1.0	46.8	-9.8	-40.9	42.1	256	0.0	1.0	0.92	56.2	-28.9	-37.0	47.1	232	0.0	0.633	1.0	0.0	1.0	0.983	56.7	-26.2	-40.5	48.4	237	0.0	0.633	1.0				
257	233	237	0.0	0.616	1.0	46.2	-8.9	-40.9	41.8	257	0.0	1.0	0.933	56.3	-28.4	-37.7	47.4	233	0.0	0.617	1.0	0.0	1.0	0.994	56.8	-25.7	-41.1	48.6	237	0.0	0.617	1.0				
259	234	238	0.0	0.6	1.0	45.5	-7.8	-40.9	41.7	259	0.0	1.0	0.945	56.4	-27.9	-38.4	47.6	234	0.0	0.6	1.0	0.0	1.0	0.988	1.0	56.6	-25.0	-41.4	48.5	238	0.0	0.6	1.0			
260	235	239	0.0	0.583	1.0	44.9	-6.6	-41.0	41.5	260	0.0	1.0	0.957	56.5	-27.4	-39.1	47.9	235	0.0	0.583	1.0	0.0	1.0	0.962	1.0	56.0	-24.1	-41.4	48.1	239	0.0	0.583	1.0			
262	236	240	0.0	0.566	1.0	44.2	-5.5	-40.9	41.3	262	0.0	1.0	0.97	56.6	-26.8	-39.8	48.1	236	0.0	0.567	1.0	0.0	1.0	0.937	1.0	55.5	-23.2	-41.4	47.6	240	0.0	0.567	1.0			
263	237	241	0.0	0.55	1.0	43.6	-4.4	-40.9	41.1	263	0.0	1.0	0.982	56.7	-26.2	-40.5	48.4	237	0.0	0.55	1.0	0.0	1.0	0.911	1.0	54.9	-22.3	-41.4	47.1	241	0.0	0.55	1.0			
265	238	242	0.0	0.533	1.0	43.0	-3.3	-40.8	41.0	265	0.0	1.0	0.994	56.8	-25.7	-41.1	48.6	238	0.0	0.533	1.0	0.0	1.0	0.885	1.0	54.4	-21.4	-41.3	46.7	242	0.0	0.533	1.0			
266	239	243	0.0	0.516	1.0	42.3	-2.3	-40.7	40.8	266	0.0	0.985	1.0	56.5	-24.9	-41.4	48.5	239	0.0	0.517	1.0	0.0	1.0	0.864	1.0	53.9	-20.6	-41.3	46.3	243	0.0	0.517	1.0			
268	240	244	0.0	0.5	1.0	41.7	-1.2	-40.6	40.6	268	0.0	0.956	1.0	55.9	-23.9	-41.4	48.0	240	0.0	0.5	1.0	0.0	1.0	0.847	1.0	53.3	-19.8	-41.3	45.9	244	0.0	0.5	1.0			
269	241	245	0.0	0.483	1.0	41.1	-0.2	-40.6	40.6	269	0.0	0.928	1.0	55.3	-22.9	-41.4	47.4	241	0.0	0.483	1.0	0.0	1.0	0.829	1.0	52.8	-19.0	-41.3	45.6	245	0.0	0.483	1.0			
271	242	246	0.0	0.466	1.0	40.5	0.7	-40.6	40.6	271	0.0	0.9	1.0	54.7	-21.9	-41.3	46.9	242	0.0	0.467	1.0	0.0	1.0	0.811	1.0	52.3	-18.1	-41.2	45.2	246	0.0	0.467	1.0			
272	243	247	0.0	0.45	1.0	39.9	1.7	-40.6	40.6	272	0.0	0.873	1.0	54.1	-21.0	-41.3	46.4	243	0.0	0.45	1.0	0.0	1.0	0.793	1.0	51.7	-17.3	-41.2	44.8	247	0.0	0.45	1.0			
273	244	248	0.0	0.433	1.0	39.3	2.7	-40.6	40.6	273	0.0	0.854	1.0	53.5	-20.1	-41.3	46.1	244	0.0	0.433	1.0	0.0	1.0	0.775	1.0	51.2	-16.6	-41.1	44.5	248	0.0	0.433	1.0			
275	245	248	0.0	0.416	1.0	38.8	3.6	-40.5	40.6	275	0.0	0.834	1.0	53.0	-19.2	-41.3	45.7	245	0.0	0.417	1.0	0.0	1.0	0.757	1.0	50.7	-15.8	-41.1	44.1	248	0.0	0.417	1.0			
276	246	249	0.0	0.4	1.0	38.2	4.6	-40.4	40.7	276	0.0	0.815	1.0	52.4	-18.3	-41.3	45.3	246	0.0	0.4	1.0	0.0	1.0	0.741	1.0	50.2	-15.0	-41.0	43.8	249	0.0	0.4	1.0			
277	247	250	0.0	0.383	1.0	37.6	5.6	-40.3	40.7	277	0.0	0.795	1.0	51.8	-17.4	-41.2	44.9	247	0.0	0.383	1.0	0.0	1.0	0.726	1.0	49.7	-14.3	-41.1	43.6	250	0.0	0.383	1.0			
279	248	251	0.0	0.366	1.0	37.0	6.6	-40.2	40.8	279	0.0	0.775	1.0	51.2	-16.6	-41.1	44.5	248	0.0	0.367	1.0	0.0	1.0	0.711	1.0	49.2	-13.5	-41.0	43.4	251	0.0	0.367	1.0			
280	249	252	0.0	0.35	1.0	36.4	7.7	-40.3	41.1	280	0.0	0.756	1.0	50.6	-15.7	-41.1	44.1	249	0.0	0.35	1.0	0.0	1.0	0.697	1.0	48.8	-12.8	-41.0	43.1							

1-1131331-L0 QE080-73 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 QE08; hue code: $H^*_e=R25Y_e$
48 step hue circles; $rgb-LabCh$ *tables

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

TUB registration: 20130201-QE08/QE08L0FP.PDF /.PS
application for measurement of offset print output, separation cmy0* (CMY0)
TUB material: code=rha4ta

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

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

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^*_{d361M}	$LAB^*_{ds361Mi} (x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{dd361Mi}$	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	
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	379	1.0	0.0	0.083 45.5 71.3	41.6 82.6 390	1.0 0.0 0.268	45.7 72.3 33.7	79.8 385	1.0 0.0 0.083	1.0 0.0 0.406	45.9 73.4 26.6	78.0 379	1.0 0.0 0.083	
390	386	381	1.0	0.0	0.066 45.5 71.2	42.3 82.8 390	1.0 0.0 0.238	45.6 72.1 35.2	80.3 386	1.0 0.0 0.067	1.0 0.0 0.38 45.8	73.1 28.1 78.3	381	1.0 0.0 0.067	
391	387	382	1.0	0.0	0.049 45.5 71.1	42.9 83.1 391	1.0 0.0 0.204	45.6 72.0 36.7	80.8 387	1.0 0.0 0.05	1.0 0.0 0.349	45.8 72.9 29.6	78.7 382	1.0 0.0 0.05	
391	388	383	1.0	0.0	0.033 45.4 71.1	43.5 83.4 391	1.0 0.0 0.17 45.6	71.8 38.2 81.3	388	1.0 0.0 0.033	1.0 0.0 0.318	45.8 72.7 31.2	79.1 383	1.0 0.0 0.033	
391	389	384	1.0	0.0	0.016 45.4 71.0	44.2 83.6 391	1.0 0.0 0.135	45.6 71.6 39.7	81.8 389	1.0 0.0 0.017	1.0 0.0 0.286	45.7 72.5 32.8	79.6 384	1.0 0.0 0.017	
392	390	385	1.0	0.0	0.0 45.4 70.9	44.8 83.9 392	1.0 0.0 0.096	45.5 71.4 41.2	82.4 390	1.0 0.0 0.0	1.0 0.0 0.255	45.7 72.2 34.4	80.0 385	1.0 0.0 0.0	

1-1131631-L0 QE080-73 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 QE08; hue code: $H^*_e=R25Y_e$
48 step hue circles; $rgb-LabCh$ *tables

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

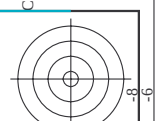
TUB registration: 20130201-QE08/QE08L0FP.PDF /.PS
application for measurement of offset print output, separation cmy0* (CMY0)

TUB material: code=rha4ta

see similar files: <http://130.149.60.45/~farbmatrik/QE08/QE08.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

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TUB-test chart QE08; hue code: $H^*_e=R25Y_e$
colors and differences, ΔE^*_{ab}



http://130.149.60.45/~farbmatrik/QE08/QE08L0FP.PDF /.PS; 3D-linearization
F: 3D-linearization QE08/QE08L0FP.DAT in file (F), page 23/33

n	HIC*File	rgb*File	Lab*File	rgb*File	Lab*File	cmyn*SepFile	rgb*File	Lab*File	delta
243	R00Y.037.037de	0.375 0.0 0.125	0.375 0.375 0.187	390	32.3 27.0 0.095	0.671 0.921 0.895	0.0 0.0 0.254	456 72.2 34.4	80.0 25.4
244	R18Y.037.037de	0.375 0.0 0.125	0.375 0.375 0.187	371	32.3 27.0 0.095	0.671 0.921 0.895	0.0 0.0 0.254	456 72.2 34.4	80.0 25.4
245	B65R.037.037de	0.375 0.0 0.125	0.375 0.375 0.187	349	0.226 0.0 0.375	0.226 0.0 0.375	0.0 0.0 0.375	375 375 375	4.3 4.3
246	B50R.037.037de	0.375 0.0 0.125	0.375 0.375 0.187	330	0.122 0.0 0.375	0.122 0.0 0.375	0.0 0.0 0.375	375 375 375	4.3 4.3
247	B38R.050.050de	0.375 0.0 0.125	0.375 0.375 0.187	317	0.067 0.0 0.5	0.067 0.0 0.5	0.0 0.0 0.5	375 375 375	4.3 4.3
248	B30R.062.062de	0.375 0.0 0.125	0.375 0.375 0.187	307	0.005 0.0 0.625	0.005 0.0 0.625	0.0 0.0 0.625	375 375 375	4.3 4.3
249	B25R.075.075de	0.375 0.0 0.125	0.375 0.375 0.187	295	0.0 0.079 0.75	0.0 0.079 0.75	0.0 0.079 0.75	375 375 375	4.3 4.3
250	B20R.087.087de	0.375 0.0 0.125	0.375 0.375 0.187	290	0.0 0.151 0.875	0.0 0.151 0.875	0.0 0.151 0.875	375 375 375	4.3 4.3
251	B18R.100.100de	0.375 0.0 0.125	0.375 0.375 0.187	292	0.0 0.21 1.0	0.0 0.21 1.0	0.0 0.21 1.0	375 375 375	4.3 4.3
252	R31Y.037.037de	0.375 0.125 0.0	0.375 0.375 0.187	49	0.375 0.092 0.0	0.375 0.092 0.0	0.0 0.0 0.375	375 375 375	4.3 4.3
253	R00Y.037.025de	0.375 0.125 0.0	0.375 0.375 0.187	390	0.375 0.124 0.188	0.375 0.124 0.188	0.0 0.0 0.375	375 375 375	4.3 4.3
254	R00Y.037.025de	0.375 0.125 0.0	0.375 0.375 0.187	390	0.375 0.124 0.188	0.375 0.124 0.188	0.0 0.0 0.375	375 375 375	4.3 4.3
255	B50R.037.025de	0.375 0.125 0.0	0.375 0.375 0.187	330	0.205 0.124 0.375	0.205 0.124 0.375	0.0 0.0 0.375	375 375 375	4.3 4.3
256	B34R.050.037de	0.375 0.125 0.0	0.375 0.375 0.187	311	0.149 0.124 0.5	0.149 0.124 0.5	0.0 0.0 0.375	375 375 375	4.3 4.3
257	B25R.062.050de	0.375 0.125 0.0	0.375 0.375 0.187	293	0.125 0.177 0.625	0.125 0.177 0.625	0.0 0.0 0.375	375 375 375	4.3 4.3
258	B19R.075.062de	0.375 0.125 0.0	0.375 0.375 0.187	289	0.125 0.248 0.75	0.125 0.248 0.75	0.0 0.0 0.375	375 375 375	4.3 4.3
259	B15R.087.075de	0.375 0.125 0.0	0.375 0.375 0.187	289	0.125 0.31 0.875	0.125 0.31 0.875	0.0 0.0 0.375	375 375 375	4.3 4.3
260	B13R.100.087de	0.375 0.125 0.0	0.375 0.375 0.187	286	0.125 0.37 1.0	0.125 0.37 1.0	0.0 0.0 0.375	375 375 375	4.3 4.3
261	R68Y.037.037de	0.375 0.25 0.0	0.375 0.375 0.187	71	0.375 0.203 0.0	0.375 0.203 0.0	0.0 0.0 0.375	375 375 375	4.3 4.3
262	R68Y.037.037de	0.375 0.25 0.0	0.375 0.375 0.187	71	0.375 0.203 0.0	0.375 0.203 0.0	0.0 0.0 0.375	375 375 375	4.3 4.3
263	R00Y.037.012de	0.375 0.25 0.0	0.375 0.375 0.187	390	0.375 0.224 0.124	0.375 0.224 0.124	0.0 0.0 0.375	375 375 375	4.3 4.3
264	R00Y.037.012de	0.375 0.25 0.0	0.375 0.375 0.187	390	0.375 0.224 0.124	0.375 0.224 0.124	0.0 0.0 0.375	375 375 375	4.3 4.3
265	B25R.050.012de	0.375 0.25 0.0	0.375 0.375 0.187	300	0.249 0.276 0.5	0.249 0.276 0.5	0.0 0.0 0.375	375 375 375	4.3 4.3
266	B25R.050.012de	0.375 0.25 0.0	0.375 0.375 0.187	300	0.249 0.276 0.5	0.249 0.276 0.5	0.0 0.0 0.375	375 375 375	4.3 4.3
267	B11R.065.037de	0.375 0.25 0.0	0.375 0.375 0.187	284	0.25 0.443 0.625	0.25 0.443 0.625	0.0 0.0 0.375	375 375 375	4.3 4.3
268	B11R.075.050de	0.375 0.25 0.0	0.375 0.375 0.187	284	0.25 0.491 0.75	0.25 0.491 0.75	0.0 0.0 0.375	375 375 375	4.3 4.3
269	B07R.100.075de	0.375 0.25 0.0	0.375 0.375 0.187	279	0.25 0.517 1.0	0.25 0.517 1.0	0.0 0.0 0.375	375 375 375	4.3 4.3
270	Y00C.037.037de	0.375 0.375 0.0	0.375 0.375 0.187	90	0.375 0.329 0.0	0.375 0.329 0.0	0.0 0.0 0.375	375 375 375	4.3 4.3
271	Y00C.037.025de	0.375 0.375 0.0	0.375 0.375 0.187	90	0.375 0.344 0.124	0.375 0.344 0.124	0.0 0.0 0.375	375 375 375	4.3 4.3
272	Y00C.037.012de	0.375 0.375 0.0	0.375 0.375 0.187	90	0.375 0.359 0.249	0.375 0.359 0.249	0.0 0.0 0.375	375 375 375	4.3 4.3
273	NW.037de	0.375 0.375 0.0	0.375 0.375 0.187	360	0.375 0.375 0.375	0.375 0.375 0.375	0.0 0.0 0.375	375 375 375	4.3 4.3
274	B00R.050.012de	0.375 0.375 0.0	0.375 0.375 0.187	270	0.375 0.432 0.5	0.375 0.432 0.5	0.0 0.0 0.375	375 375 375	4.3 4.3
275	B00R.062.025de	0.375 0.375 0.0	0.375 0.375 0.187	270	0.375 0.489 0.625	0.375 0.489 0.625	0.0 0.0 0.375	375 375 375	4.3 4.3
276	B00R.075.037de	0.375 0.375 0.0	0.375 0.375 0.187	270	0.375 0.546 0.75	0.375 0.546 0.75	0.0 0.0 0.375	375 375 375	4.3 4.3
277	B00R.087.050de	0.375 0.375 0.0	0.375 0.375 0.187	270	0.375 0.604 0.875	0.375 0.604 0.875	0.0 0.0 0.375	375 375 375	4.3 4.3
278	B00R.100.062de	0.375 0.375 0.0	0.375 0.375 0.187	270	0.375 0.661 1.0	0.375 0.661 1.0	0.0 0.0 0.375	375 375 375	4.3 4.3
279	Y23C.050.050de	0.375 0.5 0.0	0.375 0.375 0.187	109	0.31 0.5 0.124	0.31 0.5 0.124	0.0 0.0 0.375	375 375 375	4.3 4.3
280	Y31G.050.037de	0.375 0.5 0.0	0.375 0.375 0.187	109	0.31 0.5 0.124	0.31 0.5 0.124	0.0 0.0 0.375	375 375 375	4.3 4.3
281	Y50C.050.025de	0.375 0.5 0.0	0.375 0.375 0.187	120	0.33 0.5 0.249	0.33 0.5 0.249	0.0 0.0 0.375	375 375 375	4.3 4.3
282	G00B.050.012de	0.375 0.5 0.0	0.375 0.375 0.187	150	0.375 0.5 0.393	0.375 0.5 0.393	0.0 0.0 0.375	375 375 375	4.3 4.3
283	G50B.050.012de	0.375 0.5 0.0	0.375 0.375 0.187	243	0.375 0.586 0.625	0.375 0.586 0.625	0.0 0.0 0.375	375 375 375	4.3 4.3
284	G75B.062.025de	0.375 0.5 0.0	0.375 0.375 0.187	251	0.375 0.625 0.75	0.375 0.625 0.75	0.0 0.0 0.375	375 375 375	4.3 4.3
285	G84B.075.037de	0.375 0.5 0.0	0.375 0.375 0.187	256	0.375 0.676 0.875	0.375 0.676 0.875	0.0 0.0 0.375	375 375 375	4.3 4.3
286	G88B.087.050de	0.375 0.5 0.0	0.375 0.375 0.187	256	0.375 0.732 1.0	0.375 0.732 1.0	0.0 0.0 0.375	375 375 375	4.3 4.3
287	G90B.100.062de	0.375 0.5 0.0	0.375 0.375 0.187	259	0.375 0.789 0.875	0.375 0.789 0.875	0.0 0.0 0.375	375 375 375	4.3 4.3
288	Y38C.062.062de	0.375 0.625 0.0	0.375 0.625 0.312	113	0.258 0.625 0.0	0.258 0.625 0.0	0.0 0.0 0.375	375 375 375	4.3 4.3
289	Y38C.062.062de	0.375 0.625 0.0	0.375 0.625 0.312	113	0.258 0.625 0.0	0.258 0.625 0.0	0.0 0.0 0.375	375 375 375	4.3 4.3
290	Y68C.062.037de	0.375 0.625 0.0	0.375 0.625 0.312	131	0.319 0.625 0.25	0.319 0.625 0.25	0.0 0.0 0.375	375 375 375	4.3 4.3
291	G00B.062.025de	0.375 0.625 0.0	0.375 0.625 0.312	131	0.319 0.625 0.25	0.319 0.625 0.25	0.0 0.0 0.375	375 375 375	4.3 4.3
292	G25B.062.025de	0.375 0.625 0.0	0.375 0.625 0.312	180	0.375 0.625 0.5	0.375 0.625 0.5	0.0 0.0 0.375	375 375 375	4.3 4.3
293	G58B.062.025de	0.375 0.625 0.0	0.375 0.625 0.312	180	0.375 0.625 0.5	0.375 0.625 0.5	0.0 0.0 0.375	375 375 375	4.3 4.3
294	G58B.062.025de	0.375 0.625 0.0	0.375 0.625 0.312	180	0.375 0.625 0.5	0.375 0.625 0.5	0.0 0.0 0.375	375 375 375	4.3 4.3
295	G58B.062.025de	0.375 0.625 0.0	0.375 0.625 0.312	180	0.375 0.625 0.5	0.375 0.625 0.5	0.0 0.0 0.375	375 375 375	4.3 4.3
296	G00B.100.062de	0.375 0.625 0.0	0.375 0.625 0.312	224	0.375 0.789 0.875	0.375 0.789 0.875	0.0 0.0 0.375	375 375 375	4.3 4.3
297	Y38C.075.075de	0.375 0.75 0.0	0.375 0.75 0.375	127	0.28 0.75 0.125	0.28 0.75 0.125	0.0 0.0 0.375	375 375 375	4.3 4.3
298	Y68C.075.062de	0.375 0.75 0.0	0.375 0.75 0.375	136	0.304 0.75 0.25	0.304 0.75 0.25	0.0 0.0 0.375	375 375 375	4.3 4.3
299	Y68C.075.037de	0.375 0.75 0.0	0.375 0.75 0.375	150	0.375 0.75 0.432	0.375 0.75 0.432	0.0 0.0 0.375	375 375 375	4.3 4.3
300	G43B.075.037de	0.375 0.75 0.0	0.375 0.75 0.375	169	0.375 0.75 0.526	0.375 0.75 0.526	0.0 0.0 0.375	375 375 375	4.3 4.3
301	G34B.075.037de	0.375 0.75 0.0	0.375 0.75 0.375	169	0.375 0.75 0.526	0.375 0.75 0.526	0.0 0.0 0.375	375 375 375	4.3 4.3
302	G58B.087.050de	0.375 0.75 0.0	0.375 0.75 0.375	224	0.375 0.75 0.875	0.375 0.75 0.875	0.0 0.0 0.375	375 375 375	4.3 4.3
303	G61B.087.050de								

see similar files: <http://130.149.60.45/~farbmatrik/QE08/QE08.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

http://130.149.60.45/~farbmietrik/QE08/QE08LOFP.PDF /PS; 3D-linearization
F: 3D-linearization QE08/QE08LE30FP.DAT in file (F), page 25/33

TUB-test chart QE08; hue code: H_e^{*}=R25Y_e
colors and differences, ΔE^*

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

[illegible]

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QE080-7N, Page 27/33-F

reference of this page:

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see similar files: <http://130.149.60.45/~farbmetrik/QE08/QE08.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 $cmy0^*_{de}$

[illegible]

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⑤

see similar files: <http://130.149.60.45/~farbmetrik/QE08/QE08.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

V L O Y N
http://130.149.60.45/~farbmatrik/QE08/QE08L0FP.PDF /PS; 3D-linearization
F: 3D-linearization QE08/QE08LE30FP.DAT in file (F), page 31/33

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

TUB-test chart QE08; hue code: H_e*=R25Y_e
 colors and differences, ΔE^*

n	HIC [†] tie	rgb [†] tie	icr [†] tie	h _{sa} [†] tie	rgb [†] tie	LabCH [†] tie	cmym [†] sep,tie	h _{sa} tie	rgb [†] tie	LabCH [†] tie	delta	
891	NW_100e	1.0	1.0	1.0	0.0	1.0	0.0	360	1.0	1.0	0.0	
892	B50R_100.012e	1.0	0.875	1.0	0.125	0.937	330	892	0.915	0.875	0.0	
893	B50R_100.025e	1.0	0.875	1.0	0.125	0.937	330	893	0.915	0.875	0.0	
894	B50R_100.037e	1.0	0.75	1.0	0.25	0.875	330	894	0.83	0.75	0.0	
895	B50R_100.050e	1.0	0.625	1.0	0.375	0.812	330	895	0.745	0.625	0.0	
896	B50R_100.062e	1.0	0.5	1.0	0.5	0.75	330	896	0.66	0.5	0.0	
897	B50R_100.075e	1.0	0.375	1.0	0.625	0.687	330	897	0.576	0.375	0.0	
898	B50R_100.075e	1.0	0.25	1.0	0.75	0.625	330	898	0.491	0.25	0.0	
899	B50R_100.087e	1.0	0.125	1.0	0.875	0.562	330	899	0.406	0.125	0.0	
900	G00B_100.100e	1.0	0.0	1.0	1.0	0.0	330	900	0.321	0.0	0.0	
901	NW_087e	1.0	0.875	1.0	0.125	0.937	150	901	0.875	1.0	0.893	0.0
902	B50R_087.012e	0.875	0.875	0.875	0.0	0.875	360	902	0.875	0.875	0.0	
903	B50R_087.025e	0.875	0.875	0.875	0.125	0.812	330	903	0.79	0.875	0.0	
904	B50R_087.037e	0.875	0.875	0.875	0.25	0.75	330	904	0.705	0.625	0.0	
905	B50R_087.050e	0.875	0.875	0.875	0.375	0.687	330	905	0.62	0.5	0.0	
906	B50R_087.062e	0.875	0.875	0.875	0.5	0.625	330	906	0.535	0.375	0.0	
907	B50R_087.075e	0.875	0.875	0.875	0.625	0.562	330	907	0.451	0.25	0.0	
908	B50R_087.087e	0.875	0.875	0.875	0.75	0.5	330	908	0.366	0.125	0.0	
909	G00B_100.025e	0.75	1.0	0.75	0.875	0.875	0.437	330	0.281	0.0	0.0	
910	G00B_100.025e	0.75	1.0	0.75	0.875	0.875	0.437	330	0.281	0.0	0.0	
911	NW_075e	0.75	0.875	0.75	0.875	0.768	81.3	911	0.75	0.875	0.0	
912	B50R_075.012e	0.75	0.875	0.75	0.875	0.768	81.3	912	0.75	0.875	0.0	
913	B50R_075.025e	0.75	0.875	0.75	0.875	0.768	81.3	913	0.75	0.875	0.0	
914	B50R_075.037e	0.75	0.875	0.75	0.875	0.768	81.3	914	0.75	0.875	0.0	
915	B50R_075.050e	0.75	0.875	0.75	0.875	0.768	81.3	915	0.75	0.875	0.0	
916	B50R_075.062e	0.75	0.875	0.75	0.875	0.768	81.3	916	0.75	0.875	0.0	
917	B50R_075.075e	0.75	0.875	0.75	0.875	0.768	81.3	917	0.75	0.875	0.0	
918	G00B_100.037e	0.625	1.0	0.625	1.0	0.625	150	918	0.625	1.0	0.625	0.0
919	G00B_087.025e	0.625	0.875	0.625	0.875	0.75	150	919	0.625	0.875	0.0	
920	G00B_087.025e	0.625	0.75	0.625	0.75	0.625	150	920	0.625	0.75	0.0	
921	NW_062e	0.625	0.625	0.625	0.0	0.625	360	921	0.625	0.625	0.0	
922	B50R_062.012e	0.625	0.5	0.625	0.125	0.562	330	922	0.54	0.5	0.0	
923	B50R_062.025e	0.625	0.375	0.625	0.25	0.5	330	923	0.455	0.375	0.0	
924	B50R_062.037e	0.625	0.25	0.625	0.375	0.437	330	924	0.37	0.25	0.0	
925	B50R_062.050e	0.625	0.125	0.625	0.5	0.375	330	925	0.285	0.125	0.0	
926	B50R_062.062e	0.625	0.0	0.625	0.625	0.312	330	926	0.201	0.0	0.0	
927	G00B_100.050e	0.5	1.0	0.5	1.0	0.575	150	927	0.5	1.0	0.575	0.0
928	G00B_087.037e	0.5	0.875	0.5	0.875	0.556	69.8	928	0.5	0.875	0.556	0.0
929	G00B_075.025e	0.5	0.75	0.5	0.75	0.537	66.5	929	0.5	0.75	0.537	0.0
930	G00B_062.012e	0.5	0.625	0.5	0.625	0.518	63.2	930	0.5	0.625	0.518	0.0
931	NW_050e	0.5	0.5	0.5	0.0	0.5	360	931	0.5	0.5	0.0	
932	B50R_050.012e	0.5	0.375	0.5	0.125	0.437	330	932	0.415	0.375	0.5	
933	B50R_050.025e	0.5	0.25	0.5	0.25	0.375	330	933	0.33	0.249	0.5	
934	B50R_050.037e	0.5	0.125	0.5	0.375	0.312	330	934	0.245	0.124	0.5	
935	B50R_050.050e	0.5	0.0	0.5	0.5	0.25	330	935	0.16	0.0	0.5	
936	G00B_100.062e	0.375	1.0	0.375	1.0	0.625	150	936	0.375	1.0	0.469	0.0
937	G00B_087.050e	0.375	0.875	0.375	0.875	0.5	150	937	0.375	0.875	0.45	
938	G00B_075.037e	0.375	0.75	0.375	0.75	0.562	150	938	0.375	0.75	0.431	
939	G00B_062.025e	0.375	0.625	0.375	0.625	0.412	150	939	0.375	0.625	0.412	
940	NW_037e	0.375	0.5	0.375	0.5	0.393	54.3	940	0.375	0.5	0.393	0.0
941	B50R_037e	0.375	0.375	0.375	0.0	0.375	360	941	0.375	0.375	0.51	
942	B50R_037.025e	0.375	0.25	0.375	0.125	0.312	330	942	0.29	0.249	0.375	
943	B50R_037.025e	0.375	0.125	0.375	0.25	0.25	330	943	0.205	0.124	0.375	
944	G00B_100.075e	0.25	1.0	0.75	0.375	0.187	330	944	0.12	0.0	0.375	
945	G00B_087.062e	0.25	0.875	0.25	0.875	0.625	150	945	0.25	0.875	0.619	
946	G00B_075.050e	0.25	0.75	0.25	0.75	0.562	150	946	0.25	0.75	0.544	
947	G00B_062.037e	0.25	0.625	0.25	0.625	0.437	150	947	0.25	0.625	0.437	
948	G00B_050.025e	0.25	0.5	0.25	0.5	0.393	150	948	0.25	0.5	0.393	
949	G00B_037.012e	0.25	0.375	0.25	0.375	0.25	360	949	0.25	0.375	0.25	
950	NW_025e	0.25	0.25	0.25	0.0	0.25	360	950	0.25	0.25	0.0	
951	B50R_025.012e	0.25	0.125	0.25	0.125	0.187	330	951	0.165	0.124	0.25	
952	B50R_025.012e	0.25	0.0	0.25	0.25	0.15	330	952	0.08	0.0	0.25	
953	G00B_100.087e	0.125	1.0	0.125	1.0	0.875	150	953	0.125	1.0	0.257	
954	G00B_087.075e	0.125	0.875	0.125	0.875	0.75	150	954	0.125	0.875	0.75	
955	G00B_075.062e	0.125	0.75	0.125	0.75	0.625	150	955	0.125	0.75	0.625	
956	G00B_062.050e	0.125	0.625	0.125	0.625	0.5	150	956	0.125	0.625	0.5	
957	G00B_050.037e	0.125	0.5	0.125	0.5	0.431	150	957	0.124	0.5	0.431	
958	G00B_037.025e	0.125	0.375	0.125	0.375	0.25	150	958	0.124	0.375	0.25	
959	G00B_025.012e	0.125	0.25	0.125	0.25	0.187	150	959	0.124	0.25	0.187	
960	G00B_025.012e	0.125	0.125	0.125	0.0	0.125	360	960	0.125	0.125	0.0	
961	NW_012e	0.125	0.0	0.125	0.125	0.062	330	961	0.125	0.125	0.062	
962	B50R_012.012e	0.125	0.0	0.125	0.125	0.062	330	962	0.125	0.125	0.062	
963	G00B_100.100e	0.0	1.0	0.0	1.0	0.0	360	963	0.0	1.0	0.0	
964	G00B_087.087e	0.0	0.875	0.0	0.875	0.75	150	964	0.0	0.875	0.75	
965	G00B_075.075e	0.0	0.75	0.0	0.75	0.625	150	965	0.0	0.75	0.625	
966	G00B_062.062e	0.0	0.625	0.0	0.625	0.5	150	966	0.0	0.625	0.5	
967	G00B_050.050e	0.0	0.5	0.0	0.5	0.431	150	967	0.0	0.5	0.431	
968	G00B_037.037e	0.0	0.375	0.0	0.375	0.25	150	968	0.0	0.375	0.25	
969	G00B_025.025e	0.0	0.25	0.0	0.25	0.187	150	969	0.0	0.25	0.187	
970	G00B_012.012e	0.0	0.125	0.0	0.125	0.062	150	970	0.0	0.125	0.062	
971	NW_000e	0.0	0.0	0.0	0.0	0.0	360	971	0.0	0.0	0.0	

