

Input and Output: Offset Reflective System ORS18a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 96/360 = 0.26$

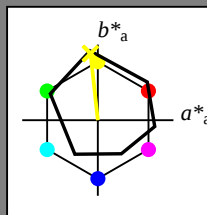
Data for any device (d) or elementary (e) colour:

HIC^*

hue text for the colours of this page:

$H^*_- = Y00G_-$

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):

$LabCh^*_{-,Ma}$: 90 -9 88 88 96

$HIC^*_{-,Ma}$: Y00G_100_100_

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

1.0 1.0 0.0 1.0 1.0

triangle lightness T^*

% Gamut

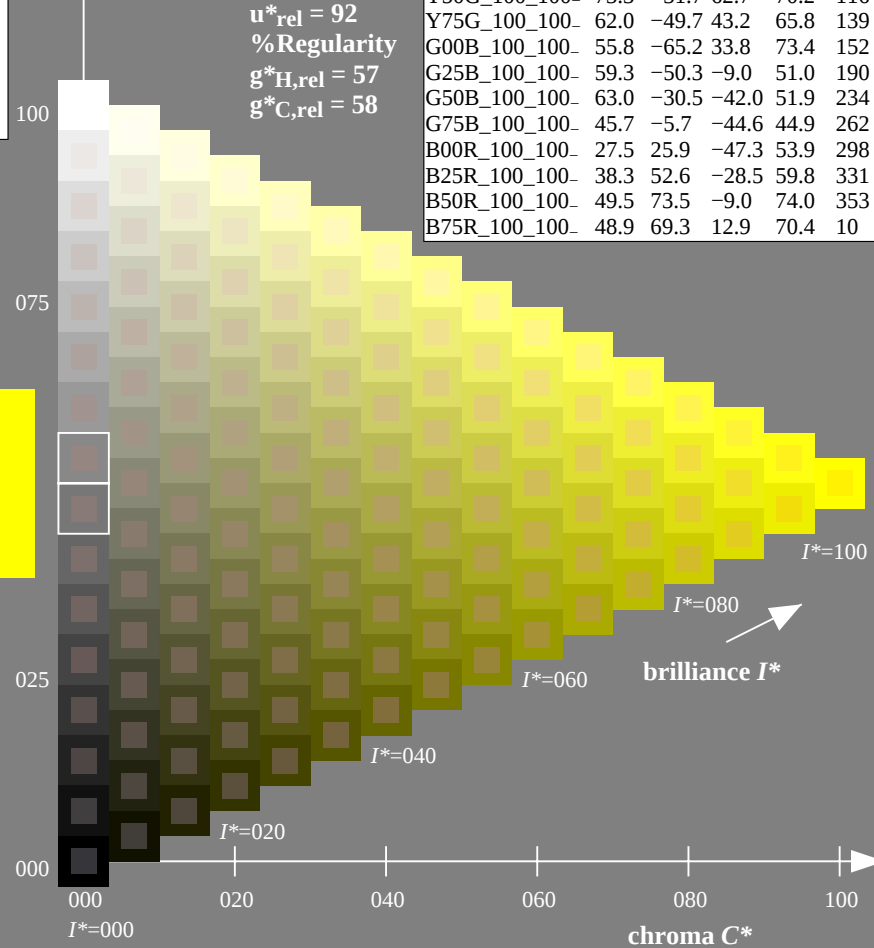
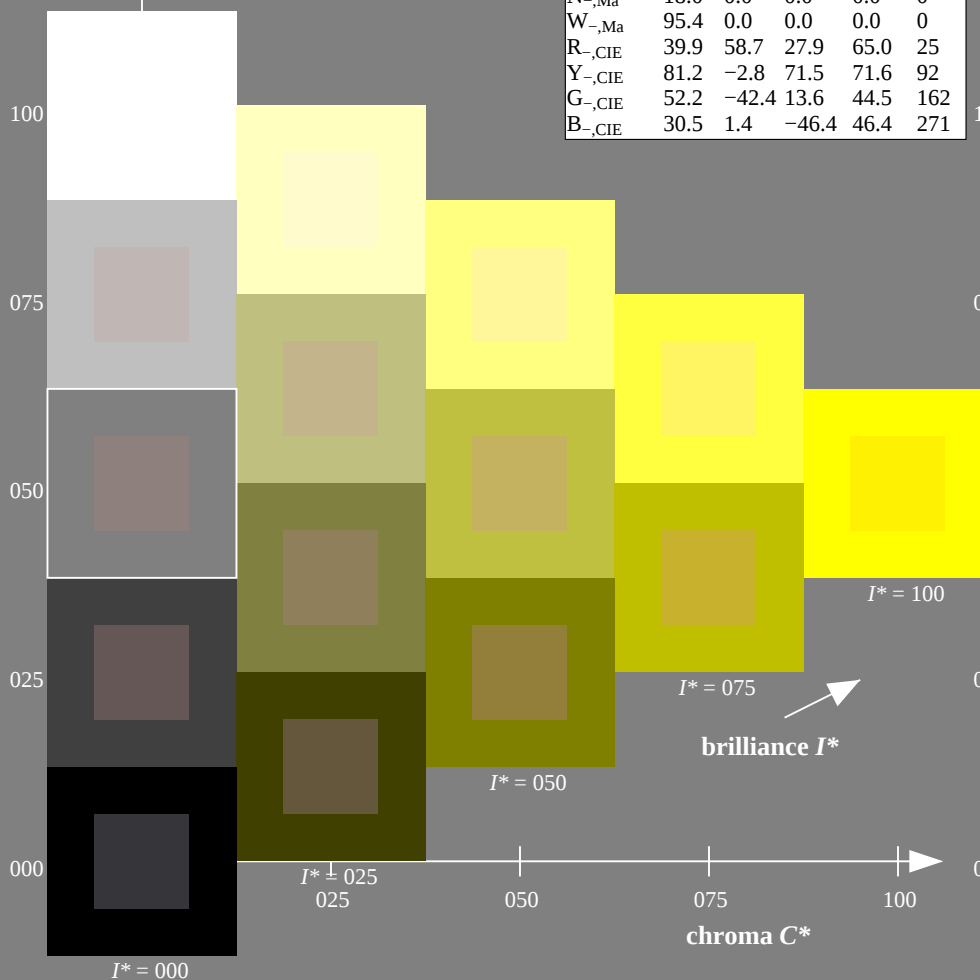
$u^*_{rel} = 92$

% Regularity

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

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

ORS20a; adapted (a) CIELAB data					
H^*_-	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_	48.4	66.1	40.2	77.3	31
R25Y_100_100_	56.8	48.0	50.5	69.6	46
R50Y_100_100_	68.6	25.0	63.9	68.6	68
R75Y_100_100_	80.6	4.8	77.2	77.3	86
Y00G_100_100_	90.2	-9.6	88.2	88.7	96
Y25G_100_100_	83.2	-18.4	79.9	81.9	102
Y50G_100_100_	73.3	-31.7	62.7	70.2	116
Y75G_100_100_	62.0	-49.7	43.2	65.8	139
G00B_100_100_	55.8	-65.2	33.8	73.4	152
G25B_100_100_	59.3	-50.3	-9.0	51.0	190
G50B_100_100_	63.0	-30.5	-42.0	51.9	234
G75B_100_100_	45.7	-5.7	-44.6	44.9	262
B00R_100_100_	27.5	25.9	-47.3	53.9	298
B25R_100_100_	38.3	52.6	-28.5	59.8	331
B50R_100_100_	49.5	73.5	-9.0	74.0	353
B75R_100_100_	48.9	69.3	12.9	70.4	10



TUB-test chart QE32; hue code: $H^*_- = Y00G_-$
Test chart according to DIN 33872, 3D=0, de=1, sRGB

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

Input and Output: Television Luminous System TLS00a for relative CIELAB hue $h_{ab,a,rel} = h_{ab}/360 = 92/360 = 0.25$

$H^*_e = Y00G_e$

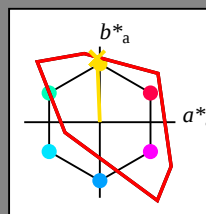
Data for any device (d) or elementary (e) colour:

HIC^*_e

hue text for the colours of this page:

$H^*_e = Y00G_e$

triangle lightness T^*



TLS00a; adapted (a) CIELAB data

name	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R_{e,Ma}$	50.9	78.3	37.3	86.7	25
$Y_{e,Ma}$	83.7	-3.4	84.5	84.5	92
$G_{e,Ma}$	85.1	-64.6	20.7	67.9	162
$C_{e,Ma}$	79.0	-34.2	-25.7	42.8	216
$B_{e,Ma}$	59.2	1.7	-56.6	56.6	271
$M_{e,Ma}$	57.1	94.1	-57.4	110.3	328
$N_{e,Ma}$	0.0	0.0	0.0	0.0	0
$W_{e,Ma}$	95.4	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):

$LabCh^*_{e,Ma}$: 83 -3 84 84 92

$HIC^*_{e,Ma}$: Y00G_100_100_e

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

1.0 0.85 0.0 1.0 1.0

triangle lightness T^*

% Gamut

$u^*_{rel} = 158$

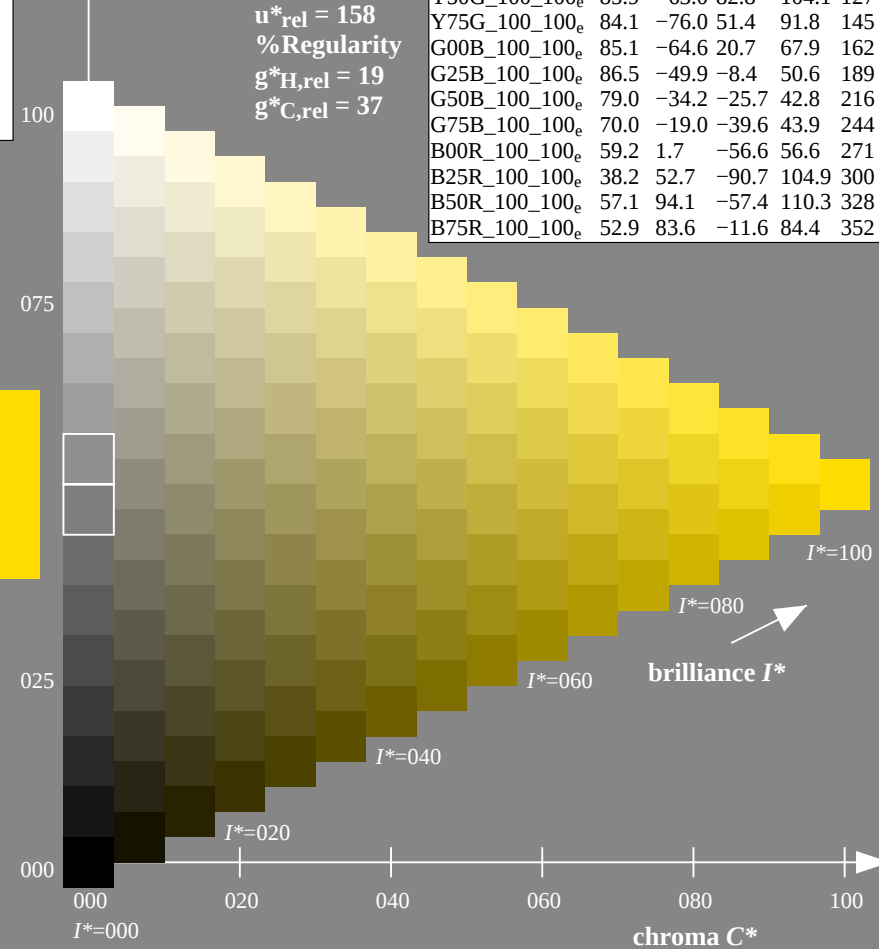
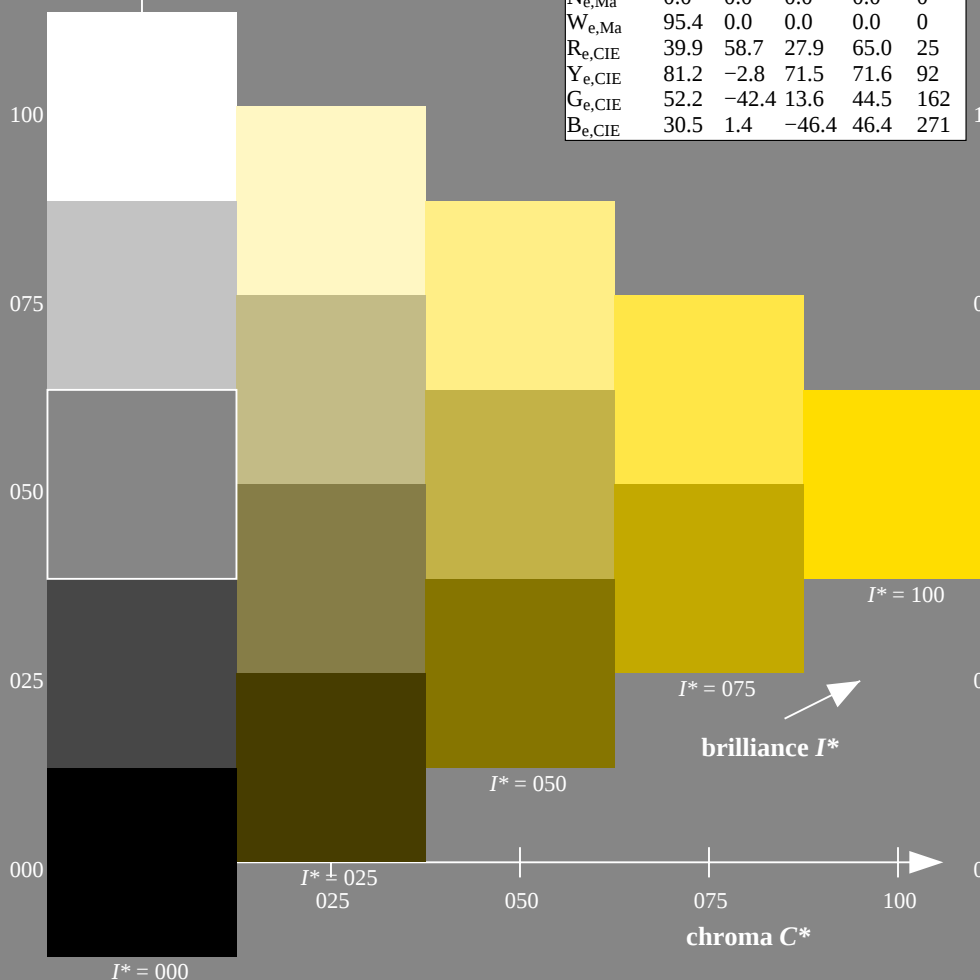
% Regularity

$g^*_{H,rel} = 19$

$g^*_{C,rel} = 37$

TLS00a; adapted (a) CIELAB data

H^*_e	$L^*=L^*_a$	a^*_a	b^*_a	$C^*_{ab,a}$	$h^*_{ab,a}$
$R00Y_{100_100_e}$	50.9	78.3	37.3	86.7	25
$R25Y_{100_100_e}$	51.3	74.4	64.8	98.7	41
$R50Y_{100_100_e}$	63.1	42.7	70.8	82.7	58
$R75Y_{100_100_e}$	73.5	18.3	77.7	79.8	76
$Y00G_{100_100_e}$	83.7	-3.4	84.5	84.5	92
$Y25G_{100_100_e}$	91.0	-29.9	88.9	93.8	108
$Y50G_{100_100_e}$	85.9	-63.0	82.8	104.1	127
$Y75G_{100_100_e}$	84.1	-76.0	51.4	91.8	145
$G00B_{100_100_e}$	85.1	-64.6	20.7	67.9	162
$G25B_{100_100_e}$	86.5	-49.9	-8.4	50.6	189
$G50B_{100_100_e}$	79.0	-34.2	-25.7	42.8	216
$G75B_{100_100_e}$	70.0	-19.0	-39.6	43.9	244
$B00R_{100_100_e}$	59.2	1.7	-56.6	56.6	271
$B25R_{100_100_e}$	38.2	52.7	-90.7	104.9	300
$B50R_{100_100_e}$	57.1	94.1	-57.4	110.3	328
$B75R_{100_100_e}$	52.9	83.6	-11.6	84.4	352



1-013130-L0 QE320-71

TUB-test chart QE32; hue code: $H^*_e = Y00G_e$

Test chart according to DIN 33872, 3D=0, de=1, sRGB

input: $rgb/cmyk \rightarrow rgb_e$

output: transfer to rgb_e

Data of Maximum color M in colorimetric system sRGB standard device; no separation, 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 $RYGCBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; 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

$LCH^*_d = 92.6 \ 93.0 \ 102.8$

$LAB^*_d = 92.6 \ -20.7 \ 90.7$

$rgb^*_d = 1.0 \ 1.0 \ 0.0$

$L=G_d$ leaf-green

$LCH^*_d = 83.6 \ 115.0 \ 136.0$

$LAB^*_d = 83.6 \ -82.7 \ 79.8$

$rgb^*_d = 0.0 \ 1.0 \ 0.0$

$C=C_d$ cyan-blue

$LCH^*_d = 86.8 \ 48.1 \ 196.3$

$LAB^*_d = 86.8 \ -46.1 \ -13.5$

$rgb^*_d = 0.0 \ 1.0 \ 1.0$

device CIELAB (a^*_d, b^*_d) chroma diagram

$O=R_d$ orange-red

$LCH^*_d = 50.4 \ 100.4 \ 40.0$

$LAB^*_d = 50.4 \ 76.9 \ 64.5$

$rgb^*_d = 1.0 \ 0.0 \ 0.0$

$M=M_d$ magenta-red

$LCH^*_d = 57.2 \ 110.9 \ 328.2$

$LAB^*_d = 57.2 \ 94.3 \ -58.4$

$rgb^*_d = 1.0 \ 0.0 \ 1.0$

$V=B_d$ violet-blue

$LCH^*_d = 30.3 \ 128.5 \ 306.2$

$LAB^*_d = 30.3 \ 76.0 \ -103.5$

$rgb^*_d = 0.0 \ 0.0 \ 1.0$

Y_e yellow

$LCH^*_e = 83.7 \ 84.5 \ 92.3$

$LAB^*_e = 83.7 \ -3.4 \ 84.5$

$rgb^*_{de} = 1.0 \ 0.856 \ 0.0$

G_e green

$LCH^*_e = 85.1 \ 67.9 \ 162.2$

$LAB^*_e = 85.1 \ -64.6 \ 20.7$

$rgb^*_{de} = 0.0 \ 1.0 \ 0.706$

C_e blue-green

$LCH^*_e = 79.0 \ 42.8 \ 216.9$

$LAB^*_e = 79.0 \ -34.2 \ -25.7$

$rgb^*_{de} = 0.0 \ 0.89 \ 1.0$

B_e blue

$LCH^*_e = 59.2 \ 56.6 \ 271.7$

$LAB^*_e = 59.2 \ 1.7 \ -56.6$

$rgb^*_{de} = 0.0 \ 0.609 \ 1.0$

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

R_e red

$LCH^*_e = 50.9 \ 86.7 \ 25.4$

$LAB^*_e = 50.9 \ 78.3 \ 37.3$

$rgb^*_{de} = 1.0 \ 0.0 \ 0.263$

M_e blue-red

$LCH^*_e = 57.1 \ 110.3 \ 328.6$

$LAB^*_e = 57.1 \ 94.1 \ -57.4$

$rgb^*_{de} = 1.0 \ 0.0 \ 0.991$

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

Y_s yellow

$LCH^*_s = 82.1 \ 83.5 \ 90.0$

$LAB^*_s = 82.1 \ 0.0 \ 83.5$

$rgb^*_{ds} = 1.0 \ 0.83 \ 0.0$

G_s green

$LCH^*_s = 84.4 \ 84.2 \ 150.0$

$LAB^*_s = 84.4 \ -72.9 \ 42.1$

$rgb^*_{ds} = 0.0 \ 1.0 \ 0.523$

R_s red

$LCH^*_s = 50.7 \ 90.1 \ 30.0$

$LAB^*_s = 50.7 \ 78.0 \ 45.0$

$rgb^*_{ds} = 1.0 \ 0.0 \ 0.202$

M_s blue-red

$LCH^*_s = 56.7 \ 107.7 \ 330.0$

$LAB^*_s = 56.7 \ 93.3 \ -53.8$

$rgb^*_{ds} = 1.0 \ 0.0 \ 0.962$

C_s blue-green

$LCH^*_s = 81.7 \ 44.6 \ 210.0$

$LAB^*_s = 81.7 \ -38.6 \ -22.3$

$rgb^*_{ds} = 0.0 \ 0.927 \ 1.0$

B_s blue

$LCH^*_s = 60.2 \ 54.7 \ 270.0$

$LAB^*_s = 60.2 \ 0.0 \ -54.7$

$rgb^*_{ds} = 0.0 \ 0.623 \ 1.0$

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

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

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

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

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

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

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

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

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

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

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

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

see similar files: <http://130.149.60.45/~farbmatrik/QE32/QE32L0NP.PDF> /www.ps.bam.de or <http://130.149.60.45/~farbmatrik>

Data of Maximum color M in colorimetric system sRGB standard device; no separation, 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 $RYGBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; 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^*_{dd64M}	$LAB^*_{ddx64M}(x=LabCh)$	$rgb^*_{ddx361M}$	$LAB^*_{ddx361M}(x=LabCh)$	$rgb^*_{dsx361M}$	$LAB^*_{dsx361M}(x=LabCh)$	$rgb^*_{dex361M}$	$LAB^*_{dex361M}$	$rgb^*_{dex361M}$	$LAB^*_{dex361M}$																						
40.0	30.0	25.4	1.0	0.0	0.0	50.4	76.9	64.5	100.4	40.0	1.0	0.0	0.0	50.5	76.9	64.6	100.4	40	1.0	0.0	0.203	50.8	78.0	45.1	90.1	30	1.0	0.0	0.263	50.9	78.3	37.3	86.7	25
41.3	37.5	33.8	1.0	0.125	0.0	51.5	73.9	64.9	98.3	41.3	1.0	0.117	0.0	51.5	74.1	64.9	98.5	41	1.0	0.0	0.082	50.6	77.2	58.2	96.7	37	1.0	0.0	0.156	50.7	77.7	51.0	92.9	33
44.6	45.0	42.1	1.0	0.25	0.0	54.0	66.7	65.9	93.8	44.6	1.0	0.25	0.0	54.1	66.7	66.0	93.8	44	1.0	0.256	0.0	54.3	66.1	66.1	93.5	45	1.0	0.157	0.0	52.2	72.0	65.3	97.2	42
50.7	52.5	50.5	1.0	0.375	0.0	58.2	55.4	67.9	87.7	50.7	1.0	0.367	0.0	57.9	56.2	67.9	88.2	50	1.0	0.392	0.0	58.9	53.6	68.6	87.0	52	1.0	0.358	0.0	57.7	56.9	67.8	88.6	49
59.7	60.0	58.8	1.0	0.5	0.0	63.6	41.3	71.0	82.2	59.7	1.0	0.5	0.0	63.7	41.4	71.0	82.2	59	1.0	0.502	0.0	63.8	41.1	71.2	82.2	60	1.0	0.488	0.0	63.1	42.8	70.9	82.8	58
71.0	67.5	67.2	1.0	0.625	0.0	70.1	25.7	75.0	79.3	71.0	1.0	0.617	0.0	69.7	26.8	74.9	79.6	70	1.0	0.58	0.0	67.8	31.4	74.0	80.4	67	1.0	0.577	0.0	67.6	31.8	73.9	80.5	66
82.9	75.0	75.6	1.0	0.75	0.0	77.2	9.8	79.7	80.4	82.9	1.0	0.75	0.0	77.2	9.8	79.8	80.4	82	1.0	0.667	0.0	72.5	20.6	77.0	79.7	75	1.0	0.673	0.0	72.8	19.8	77.3	79.8	75
93.8	82.5	83.9	1.0	0.875	0.0	84.8	-5.7	85.0	85.2	93.8	1.0	0.867	0.0	84.3	-4.6	84.8	85.0	93	1.0	0.741	0.0	76.7	11.2	79.5	80.3	82	1.0	0.755	0.0	77.5	9.3	80.1	80.6	83
102.8	90.0	92.3	1.0	1.0	0.0	92.6	-20.7	90.7	93.0	102.8	1.0	1.0	0.0	92.7	-20.6	90.8	93.1	102	1.0	0.831	0.0	82.1	0.0	83.5	83.5	90	1.0	0.857	0.0	83.7	-3.3	84.5	84.6	92
110.5	97.5	101.0	0.875	1.0	0.0	90.4	-33.1	88.1	94.1	110.5	0.883	1.0	0.0	90.6	-32.2	88.4	94.1	110	1.0	0.918	0.0	87.5	-10.6	87.3	88.0	97	1.0	0.967	0.0	90.6	-16.4	89.5	91.0	100
117.6	105.0	109.7	0.75	1.0	0.0	88.5	-44.9	85.8	96.8	117.6	0.75	1.0	0.0	88.5	-44.8	85.8	96.9	117	0.965	1.0	0.0	92.0	-24.1	90.2	93.4	105	0.888	1.0	0.0	90.7	-31.7	88.5	94.0	109
123.6	112.5	118.5	0.625	1.0	0.0	86.9	-55.8	83.9	100.7	123.6	0.633	1.0	0.0	87.1	-55.0	84.1	100.5	123	0.85	1.0	0.0	90.1	-35.4	87.8	94.7	112	0.743	1.0	0.0	88.5	-45.4	85.8	97.1	117
128.3	120.0	127.2	0.5	1.0	0.0	85.7	-65.2	82.4	105.1	128.3	0.5	1.0	0.0	85.7	-65.1	82.4	105.1	128	0.7	1.0	0.0	87.9	-49.1	85.3	98.4	120	0.529	1.0	0.0	86.0	-62.9	82.9	104.1	127
131.8	127.5	136.0	0.375	1.0	0.0	84.7	-72.8	81.2	109.1	131.8	0.383	1.0	0.0	84.8	-72.2	81.4	108.9	131	0.536	1.0	0.0	86.1	-62.4	83.0	103.9	127	0.132	1.0	0.0	83.8	-81.2	80.1	114.1	135
134.1	135.0	144.7	0.25	1.0	0.0	84.1	-78.2	80.5	112.2	134.1	0.25	1.0	0.0	84.1	-78.2	80.5	112.3	134	0.173	1.0	0.0	83.9	-80.2	80.3	113.5	135	0.0	1.0	0.41	84.1	-76.8	54.3	94.1	144
135.5	142.5	153.4	0.125	1.0	0.0	83.7	-81.4	80.0	114.2	135.5	0.133	1.0	0.0	83.8	-81.2	80.1	114.1	135	0.0	1.0	0.335	83.9	-78.7	61.6	100.0	142	0.0	1.0	0.573	84.6	-70.9	36.3	79.8	152
136.0	150.0	162.2	0.0	1.0	0.0	83.6	-82.7	79.8	115.0	136.0	0.0	1.0	0.0	83.6	-82.7	79.9	115.0	136	0.0	1.0	0.523	84.4	-72.9	42.1	84.3	150	0.0	1.0	0.706	85.2	-64.6	20.7	67.9	162
137.0	157.5	169.0	0.0	1.0	0.125	83.6	-82.1	76.6	112.3	137.0	0.0	1.0	0.117	83.7	-82.1	76.8	112.5	136	0.0	1.0	0.639	84.9	-67.8	28.8	73.8	157	0.0	1.0	0.778	85.5	-60.6	12.2	61.9	168
139.3	165.0	175.9	0.0	1.0	0.25	83.8	-80.5	69.1	106.1	139.3	0.0	1.0	0.25	83.8	-80.5	69.1	106.2	139	0.0	1.0	0.742	85.3	-62.5	16.8	64.8	165	0.0	1.0	0.847	85.9	-56.4	4.0	56.7	175
143.2	172.5	182.7	0.0	1.0	0.375	84.0	-77.8	58.1	97.1	143.2	0.0	1.0	0.367	84.0	-77.9	58.9	97.7	142	0.0	1.0	0.81	85.7	-58.8	8.3	59.5	172	0.0	1.0	0.9	86.2	-53.2	-2.0	53.3	182
148.6	180.0	189.6	0.0	1.0	0.5	84.3	-73.7	44.9	86.4	148.6	0.0	1.0	0.5	84.3	-73.7	45.0	86.4	148	0.0	1.0	0.883	86.1	-54.1	0.0	54.2	180	0.0	1.0	0.952	86.6	-49.8	-8.3	50.6	189
155.8	187.5	196.4	0.0	1.0	0.625	84.7	-68.5	30.6	75.0	155.8	0.0	1.0	0.617	84.8	-68.8	31.5	75.8	155	0.0	1.0	0.933	86.4	-51.1	-6.2	51.6	187	0.0	1.0	0.997	86.9	-46.3	-13.2	48.3	195
165.6	195.0	203.2	0.0	1.0	0.75	85.3	-62.0	15.9	64.0	165.6	0.0	1.0	0.75	85.4	-62.0	15.9	64.1	165	0.0	1.0	0.99	86.8	-46.9	-12.5	48.6	195	0.0	0.963	1.0	84.3	-42.5	-18.2	46.4	203
178.8	202.5	210.1	0.0	1.0	0.875	86.0	-54.5	1.0	54.5	178.8	0.0	1.0	0.867	86.0	-55.1	2.0	55.2	177	0.0	0.97	1.0	84.7	-43.2	-17.4	46.7	202	0.0	0.929	1.0	81.8	-38.8	-22.1	44.7	209
196.3	210.0	216.9	0.0	1.0	1.0	86.8	-46.1	-13.5	48.1	196.3	0.0	1.0	1.0	86.9	-46.1	-13.5	48.1	196	0.0	0.927	1.0	81.7	-38.6	-22.2	44.7	210	0.0	0.89	1.0	79.1	-34.2	-25.7	42.9	216
219.8	217.5	223.8	0.0	0.875	1.0	77.9	-32.3	-27.0	42.1	219.8	0.0	0.883	1.0	78.6	-33.3	-26.3	42.6	218	0.0	0.89	1.0	79.1	-34.1	-25.7	42.9	217	0.0	0.859	1.0	76.9	-30.7	-29.0	42.4	223
247.2	225.0	230.6	0.0	0.75	1.0	69.1	-17.0	-40.7	44.1	247.2	0.0	0.75	1.0	69.1	-17.0	-40.6	44.2	247	0.0	0.851	1.0	76.3	-30.0	-30.0	42.5	225	0.0	0.826	1.0	74.5	-27.1	-33.1	43.0	230
269.8	232.5	237.5	0.0	0.625	1.0	60.3	-0.1	-54.6	54.6	269.8	0.0	0.633	1.0	60.9	-1.5	-53.8	53.9	268	0.0	0.82	1.0	74.1	-26.4	-33.8	43.1	232	0.0	0.797	1.0	72.4	-23.5	-36.3	43.4	237
285.0	240.0	244.3	0.0	0.5	1.0	51.7	18.3	-68.3	70.7	285.0	0.0	0.5	1.0	51.8	18.3	-68.2	70.7	285	0.0	0.783	1.0	71.5	-21.7	-37.7	43.6	240	0.0	0.763	1.0	70.1	-18.9	-39.5	44.0	244
294.8	247.5	251.2	0.0	0.375	1.0	43.8	37.6	-81.2	89.5	294.8	0.0	0.383	1.0	44.4	36.2	-80.4	88.3	294	0.0	0.751	1.0	69.2	-17.2	-40.6	44.2	247	0.0	0.731	1.0	67.8	-15.0	-43.1	45.8	250
301.1	255.0	258.0	0.0	0.25	1.0	37.1	55.9	-92.3	107.9	301.1	0.0	0.25	1.0	37.2	55.9	-92.2	107.9	301	0.0	0.707	1.0	66.1	-12.3	-46.0	47.8	255	0.0	0.69	1.0	64.9	-10.1	-48.0	49.2	258
304.8	262.5	264.8	0.0	0.125	1.0	32.4	69.5	-100.0	121.8	304.8	0.0	0.133	1.0	32.8	68.6	-99.5	121.0	304	0.0	0.668	1.0	63.4	-7.0	-50.4	51.0	262	0.0	0.655	1.0	62.4	-5.0	-51.8	52.1	264
306.2	270.0	271.7	0.0	0.0	1.0	30.3	76.0	-103.5	128.5	306.2	0.0	0.0	1.0	30.4	76.1	-103.5	128.5	306	0.0	0.624	1.0	60.2	0.0	-54.7	54.8	270	0.0	0.609	1.0	59.3	1.7	-56.5	56.6	271
306.6	277.5	278.8	0.125	0.0	1.0	31.0	76.2	-102.4	127.7	306.6	0.117	0.0	1.0	31.0	76.3	-102.5	127.8	306	0.0	0.566	1.0	56.3	7.6	-61.7	62.2	277	0.0	0.555	1.0	55.5	9.3	-62.9	63.7	278
307.5	285.0	285.9	0.25	0.0	1.0	32.6	76.8	-99.8	125.9	307.5	0.25	0.0	1.0	32.6	76.8	-99.7	126.0	307	0.0	0.5	1.0	51.8	18.3	-68.2	70.7	285	0.0	0.488	1.0	51.0	19.9	-69.6	72.5	285
309.2	292.5	293.0	0.375	0.0	1.0	35.1	77.9	-95.5	123.3	309.2	0.367	0.0	1.0	35.0	77.9	-95.7	123.5	309	0.0	0.412	1.0	46.2	31.5	-77.8	84.1	292	0.0	0.404	1.0	45.7	32.7	-78.5	85.2	292
311.6	300.0	300.1	0.5	0.0	1.0	38.5	79.8	-89.7	120.0	311.6	0.5	0.0	1.0	38.6	79.9	-89.6	120.1	311	0.0	0.274	1.0	38.4	52.2	-90.4	104.5	300	0.0	0.27	1.0					

Data of Maximum color M in colorimetric system sRGB standard device; no separation, 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 $RYGBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; 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^*_{dd64M}	$LAB^*_{ddx64M}(x=LabCh)$	$rgb^*_{dex361M}$	$LAB^*_{dex361M}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}															
40.0	30.0	25.4	1.0	0.0	0.0	50.4	76.9	64.5	100.4	40.0	40.0	1.0	0.0	0.263	50.9	78.3	37.3	86.7	25					
41.3	37.5	33.8	1.0	0.125	0.0	51.5	73.9	64.9	98.3	41.3	41.3	1.0	0.0	0.156	50.7	77.7	51.0	92.9	33					
44.6	45.0	42.1	1.0	0.25	0.0	54.0	66.7	65.9	93.8	44.6	44.6	1.0	0.0	0.157	0.0	52.2	72.0	65.3	97.2	42				
50.7	52.5	50.5	1.0	0.375	0.0	58.2	55.4	67.9	87.7	50.7	50.7	1.0	0.0	0.358	0.0	57.7	56.9	67.8	88.6	49				
59.7	60.0	58.8	1.0	0.5	0.0	63.6	41.3	71.0	82.2	59.7	59.7	1.0	0.0	0.488	0.0	63.1	42.8	70.9	82.8	58				
71.0	67.5	67.2	1.0	0.625	0.0	70.1	25.7	75.0	79.3	71.0	71.0	1.0	0.0	0.577	0.0	67.6	31.8	73.9	80.5	66				
82.9	75.0	75.6	1.0	0.75	0.0	77.2	9.8	79.7	80.4	82.9	82.9	1.0	0.0	0.673	0.0	72.8	19.8	77.3	79.8	75				
93.8	82.5	83.9	1.0	0.875	0.0	84.8	-5.7	85.0	85.2	93.8	93.8	1.0	0.0	0.755	0.0	77.5	9.3	80.1	80.6	83				
102.8	90.0	92.3	1.0	1.0	0.0	92.6	-20.7	90.7	93.0	102.8	102.8	1.0	0.0	0.857	0.0	83.7	-3.3	84.5	84.6	92				
110.5	97.5	101.0	0.875	1.0	0.0	90.4	-33.1	88.1	94.1	110.5	110.5	1.0	0.0	0.967	0.0	90.6	-16.4	89.5	91.0	100				
117.6	105.0	109.7	0.75	1.0	0.0	88.5	-44.9	85.8	96.8	117.6	117.6	0.888	1.0	0.0	90.7	-31.7	88.5	94.0	109					
123.6	112.5	118.5	0.625	1.0	0.0	86.9	-55.8	83.9	100.7	123.6	123.6	1.0	0.0	0.743	1.0	0.0	88.5	-45.4	85.8	97.1	117			
128.3	120.0	127.2	0.5	1.0	0.0	85.7	-65.2	82.4	105.1	128.3	128.3	0.529	1.0	0.0	86.0	-62.9	82.9	104.1	127					
131.8	127.5	136.0	0.375	1.0	0.0	84.7	-72.8	81.2	109.1	131.8	131.8	0.132	1.0	0.0	83.8	-81.2	80.1	114.1	135					
134.1	135.0	144.7	0.25	1.0	0.0	84.1	-78.2	80.5	112.2	134.1	134.1	0.0	1.0	0.41	84.1	-76.8	54.3	94.1	144					
135.5	142.5	153.4	0.125	1.0	0.0	83.7	-81.4	80.0	114.2	135.5	135.5	0.0	1.0	0.573	84.6	-70.9	36.3	79.8	152					
136.0	150.0	162.2	0.0	1.0	0.0	83.6	-82.7	79.8	115.0	136.0	136.0	0.0	1.0	0.706	85.2	-64.6	20.7	67.9	162					
137.0	157.5	169.0	0.0	1.0	0.125	83.6	-82.1	76.6	112.3	137.0	137.0	0.0	1.0	0.778	85.5	-60.6	12.2	61.9	168					
139.3	165.0	175.9	0.0	1.0	0.25	83.8	-80.5	69.1	106.1	139.3	139.3	0.0	1.0	0.847	85.9	-56.4	4.0	56.7	175					
143.2	172.5	182.7	0.0	1.0	0.375	84.0	-77.8	58.1	97.1	143.2	143.2	0.0	1.0	0.9	86.2	-53.2	-2.0	53.3	182					
148.6	180.0	189.6	0.0	1.0	0.5	84.3	-73.7	44.9	86.4	148.6	148.6	0.0	1.0	0.952	86.6	-49.8	-8.3	50.6	189					
155.8	187.5	196.4	0.0	1.0	0.625	84.7	-68.5	30.6	75.0	155.8	155.8	0.0	1.0	0.997	86.9	-46.3	-13.2	48.3	195					
165.6	195.0	203.2	0.0	1.0	0.75	85.3	-62.0	15.9	64.0	165.6	165.6	0.0	1.0	0.963	1.0	84.3	-42.5	-18.2	46.4	203				
178.8	202.5	210.1	0.0	1.0	0.875	86.0	-54.5	1.0	54.5	178.8	178.8	0.0	1.0	0.929	1.0	81.8	-38.8	-22.1	44.7	209				
196.3	210.0	216.9	0.0	1.0	1.0	86.8	-46.1	-13.5	48.1	196.3	196.3	0.0	1.0	0.89	1.0	79.1	-34.2	-25.7	42.9	216				
219.8	217.5	223.8	0.0	0.875	1.0	77.9	-32.3	-27.0	42.1	219.8	219.8	0.0	1.0	0.859	1.0	76.9	-30.7	-29.0	42.4	223				
247.2	225.0	230.6	0.0	0.75	1.0	69.1	-17.0	-40.7	44.1	247.2	247.2	0.0	1.0	0.826	1.0	74.5	-27.1	-33.1	43.0	230				
269.8	232.5	237.5	0.0	0.625	1.0	60.3	-0.1	-54.6	54.6	269.8	269.8	0.0	1.0	0.797	1.0	72.4	-23.5	-36.3	43.4	237				
285.0	240.0	244.3	0.0	0.5	1.0	51.7	18.3	-68.3	70.7	285.0	285.0	0.0	1.0	0.763	1.0	70.1	-18.9	-39.5	44.0	244				
294.8	247.5	251.2	0.0	0.375	1.0	43.8	37.6	-81.2	89.5	294.8	294.8	0.0	1.0	0.731	1.0	67.8	-15.0	-43.1	45.8	250				
301.1	255.0	258.0	0.0	0.25	1.0	37.1	55.9	-92.3	107.9	301.1	301.1	0.0	1.0	0.69	1.0	64.9	-10.1	-48.0	49.2	258				
304.8	262.5	264.8	0.0	0.125	1.0	32.4	69.5	-100.0	121.8	304.8	304.8	0.0	1.0	0.655	1.0	62.4	-5.0	-51.8	52.1	264				
306.2	270.0	271.7	0.0	0.0	1.0	30.3	76.0	-103.5	128.5	306.2	306.2	0.0	1.0	0.609	1.0	59.3	1.7	-56.5	56.6	271				
306.6	277.5	278.8	0.125	0.0	1.0	31.0	76.2	-102.4	127.7	306.6	306.6	0.0	1.0	0.555	1.0	55.5	9.3	-62.9	63.7	278				
307.5	285.0	285.9	0.25	0.0	1.0	32.6	76.8	-99.8	125.9	307.5	307.5	0.0	1.0	0.488	1.0	51.0	19.9	-69.6	72.5	285				
309.2	292.5	293.0	0.375	0.0	1.0	35.1	77.9	-95.5	123.3	309.2	309.2	0.0	1.0	0.404	1.0	45.7	32.7	-78.5	85.2	292				
311.6	300.0	300.1	0.5	0.0	1.0	38.5	79.8	-89.7	120.0	311.6	311.6	0.0	1.0	0.27	1.0	38.2	52.8	-90.6	105.0	300				
314.8	307.5	307.2	0.625	0.0	1.0	42.7	82.5	-82.7	116.8	314.8	314.8	0.0	1.0	0.146	0.0	31.3	76.4	-102.0	127.5	306				
318.8	315.0	314.3	0.75	0.0	1.0	47.2	85.8	-75.1	114.0	318.8	318.8	0.0	1.0	0.605	0.0	42.1	82.1	-83.8	117.4	314				
323.3	322.5	321.4	0.875	0.0	1.0	52.1	89.8	-66.9	112.0	323.3	323.3	0.0	1.0	0.811	0.0	49.7	87.9	-71.0	113.1	321				
328.2	330.0	328.6	1.0	0.0	1.0	57.2	94.3	-58.4	110.9	328.2	328.2	1.0	0.0	0.992	57.2	94.2	-57.4	110.3	328					
334.0	337.5	335.7	1.0	0.0	0.875	55.6	90.3	-43.9	100.4	334.0	334.0	1.0	0.0	0.856	55.4	89.9	-41.4	99.0	335					
341.6	345.0	342.8	1.0	0.0	0.75	54.2	86.7	-28.6	91.3	341.6	341.6	1.0	0.0	0.735	54.1	86.5	-26.6	90.6	342					
351.4	352.5	349.9	1.0	0.0	0.625	53.0	83.6	-12.6	84.6	351.4	351.4	1.0	0.0	0.65	53.3	84.5	-15.6	86.0	349					
362.9	360.0	357.0	1.0	0.0	0.5	52.0	81.1	4.1	81.2	362.9	362.9	1.0	0.0	0.618	53.0	83.6	-11.6	84.4	352					
375.2	367.5	364.1	1.0	0.0	0.375	51.3	79.2	21.6	82.1	375.2	375.2	1.0	0.0	0.533	52.3	82.2	-0.1	82.2	359					
386.7	375.0	371.2	1.0	0.0	0.25	50.8	77.9	39.2	87.2	386.7	386.7	1.0	0.0	0.441	51.7	80.7	12.5	81.7	368					
395.4	382.5	378.3	1.0	0.0	0.125	50.6	77.2	54.9	94.8	395.4	395.4	1.0	0.0	0.361	51.3	79.3	23.6	82.8	376					
400.0	390.0	385.4	1.0	0.0	0.0	50.4	76.9	64.5	100.4	400.0	400.0	1.0	0.0	0.263	50.9	78.3	37.3	86.7	385					

1-013430-L0 QE320-71 LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0

TUB-test chart QE32; hue code: $H^*_e=Y00G_e$
48 step hue circles; $rgb-LabCh^*$ tables

input: $rgb/cmyk \rightarrow rgb_e$
output: transfer to rgb_e

Output: sRGB standard device; no separation, D65, page 5/29

TUB registration: 20130201-QE32/QE32L0NP.PDF /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

see similar files: <http://130.149.60.45/~farbmetrik/QE32/QE32.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20130201-QE32/QE32L0NP.PDF /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system sRGB standard device; no separation, 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 $RYGCBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; 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}																	
40	30	25	1.0	0.0 0.0	50.4	76.9	64.5	100.4	40	1.0	0.0 0.0	0.203	50.8	78.0	45.1	90.1	30	1.0	0.0 0.0	0.263	50.9	78.3	37.3	86.7	25	1.0	0.0 0.0	0.0	0.0	0.0		
40	31	26	1.0	0.016	50.6	76.5	64.6	100.1	40	1.0	0.0 0.0	0.189	50.7	78.0	46.9	91.0	31	1.0	0.017	0.0	0.0	0.251	50.9	78.0	39.0	87.2	26	1.0	0.017	0.0	0.0	
40	32	27	1.0	0.033	50.7	76.1	64.6	99.8	40	1.0	0.0 0.0	0.174	50.7	77.9	48.7	91.8	32	1.0	0.033	0.0	0.0	0.236	50.8	78.0	41.0	88.1	27	1.0	0.033	0.0	0.0	
40	33	28	1.0	0.05	50.9	75.7	64.7	99.6	40	1.0	0.0 0.0	0.16	50.7	77.7	50.5	92.7	33	1.0	0.05	0.0	0.0	0.22	50.8	78.1	43.0	89.1	28	1.0	0.05	0.0	0.0	
40	34	29	1.0	0.066	51.0	75.3	64.7	99.3	40	1.0	0.0 0.0	0.146	50.6	77.6	52.3	93.6	34	1.0	0.067	0.0	0.0	0.204	50.8	78.0	44.9	90.1	29	1.0	0.067	0.0	0.0	
40	35	31	1.0	0.083	51.1	74.9	64.8	99.0	40	1.0	0.0 0.0	0.131	50.6	77.3	54.2	94.4	35	1.0	0.083	0.0	0.0	0.188	50.7	78.0	46.9	91.0	31	1.0	0.083	0.0	0.0	
41	36	32	1.0	0.1	51.3	74.5	64.8	98.7	41	1.0	0.0 0.0	0.11	50.6	77.3	56.1	95.5	36	1.0	0.1	0.0	0.0	0.172	50.7	77.9	49.0	92.0	32	1.0	0.1	0.0	0.0	
41	37	33	1.0	0.116	51.4	74.1	64.9	98.5	41	1.0	0.0 0.0	0.082	50.6	77.2	58.2	96.7	37	1.0	0.117	0.0	0.0	0.156	50.7	77.7	51.0	92.9	33	1.0	0.117	0.0	0.0	
41	38	34	1.0	0.133	51.7	73.4	65.0	98.0	41	1.0	0.0 0.0	0.055	50.5	77.2	60.3	98.0	38	1.0	0.133	0.0	0.0	0.14	50.6	77.5	53.0	93.9	34	1.0	0.133	0.0	0.0	
41	39	35	1.0	0.15	52.0	72.4	65.2	97.4	41	1.0	0.0 0.0	0.028	50.5	77.1	62.4	99.2	39	1.0	0.15	0.0	0.0	0.123	50.6	77.2	55.1	94.9	35	1.0	0.15	0.0	0.0	
42	40	36	1.0	0.166	52.3	71.4	65.3	96.8	42	1.0	0.0 0.0	0.0	50.5	76.9	64.6	100.4	40	1.0	0.167	0.0	0.0	0.093	50.6	77.3	57.4	96.3	36	1.0	0.167	0.0	0.0	
42	41	37	1.0	0.183	52.7	70.5	65.5	96.2	42	1.0	0.0095	0.0	51.3	74.6	64.9	98.9	41	1.0	0.183	0.0	0.0	0.062	50.5	77.2	59.7	97.6	37	1.0	0.183	0.0	0.0	
43	42	38	1.0	0.2	53.0	69.5	65.6	95.6	43	1.0	0.151	0.0	52.1	72.4	65.2	97.5	42	1.0	0.2	0.0	0.0	0.032	50.5	77.1	62.1	99.0	38	1.0	0.2	0.0	0.0	
43	43	39	1.0	0.216	53.4	68.6	65.7	95.0	43	1.0	0.188	0.0	52.8	70.3	65.5	96.1	43	1.0	0.217	0.0	0.0	0.001	50.5	76.9	64.5	100.4	39	1.0	0.217	0.0	0.0	
44	44	41	1.0	0.233	53.7	67.6	65.8	94.4	44	1.0	0.225	0.0	53.6	68.2	65.8	94.8	44	1.0	0.233	0.0	0.0	0.102	0.0	51.4	74.4	64.9	98.8	41	1.0	0.233	0.0	0.0
44	45	42	1.0	0.25	54.0	66.7	65.9	93.8	44	1.0	0.256	0.0	54.3	66.1	66.1	93.5	45	1.0	0.25	0.0	0.0	0.157	0.0	52.2	72.0	65.3	97.2	42	1.0	0.25	0.0	0.0
45	46	43	1.0	0.266	54.6	65.1	66.3	93.0	45	1.0	0.277	0.0	55.0	64.3	66.6	92.5	46	1.0	0.267	0.0	0.0	0.199	0.0	53.0	69.6	65.6	95.7	43	1.0	0.267	0.0	0.0
46	47	44	1.0	0.283	55.1	63.6	66.6	92.2	46	1.0	0.297	0.0	55.6	62.4	66.9	91.5	47	1.0	0.283	0.0	0.0	0.24	0.0	53.9	67.3	65.9	94.2	44	1.0	0.283	0.0	0.0
47	48	45	1.0	0.3	55.7	62.1	66.9	91.3	47	1.0	0.318	0.0	56.3	60.6	67.3	90.5	48	1.0	0.3	0.0	0.0	0.267	0.0	54.7	65.1	66.4	93.0	45	1.0	0.3	0.0	0.0
47	49	46	1.0	0.316	56.2	60.6	67.2	90.5	47	1.0	0.338	0.0	57.0	58.7	67.6	89.5	49	1.0	0.317	0.0	0.0	0.29	0.0	55.4	63.1	66.8	91.9	46	1.0	0.317	0.0	0.0
48	50	47	1.0	0.333	56.8	59.1	67.5	89.7	48	1.0	0.359	0.0	57.7	56.9	67.8	88.5	50	1.0	0.333	0.0	0.0	0.313	0.0	56.2	61.0	67.2	90.8	47	1.0	0.333	0.0	0.0
49	51	48	1.0	0.35	57.3	57.6	67.7	88.9	49	1.0	0.378	0.0	58.3	55.1	68.1	87.6	51	1.0	0.35	0.0	0.0	0.336	0.0	56.9	59.0	67.5	89.7	48	1.0	0.35	0.0	0.0
50	52	49	1.0	0.366	57.9	56.2	67.9	88.1	50	1.0	0.392	0.0	58.9	53.6	68.6	87.0	52	1.0	0.367	0.0	0.0	0.358	0.0	57.7	56.9	67.8	88.6	49	1.0	0.367	0.0	0.0
51	53	51	1.0	0.383	58.5	54.5	68.2	87.3	51	1.0	0.406	0.0	59.6	52.0	69.0	86.4	53	1.0	0.383	0.0	0.0	0.379	0.0	58.4	55.0	68.1	87.6	51	1.0	0.383	0.0	0.0
52	54	52	1.0	0.4	59.3	52.6	68.8	86.6	52	1.0	0.42	0.0	60.2	50.4	69.4	85.8	54	1.0	0.4	0.0	0.0	0.395	0.0	59.1	53.2	68.7	86.9	52	1.0	0.4	0.0	0.0
53	55	53	1.0	0.416	60.0	50.7	69.3	85.9	53	1.0	0.433	0.0	60.8	48.8	69.8	85.2	55	1.0	0.417	0.0	0.0	0.41	0.0	59.7	51.5	69.1	86.2	53	1.0	0.417	0.0	0.0
54	56	54	1.0	0.433	60.7	48.8	69.7	85.1	54	1.0	0.447	0.0	61.4	47.3	70.1	84.5	56	1.0	0.433	0.0	0.0	0.426	0.0	60.4	49.7	69.6	85.5	54	1.0	0.433	0.0	0.0
56	57	55	1.0	0.45	61.4	46.9	70.1	84.4	56	1.0	0.461	0.0	62.0	45.7	70.4	83.9	57	1.0	0.45	0.0	0.0	0.441	0.0	61.1	48.0	69.9	84.8	55	1.0	0.45	0.0	0.0
57	58	56	1.0	0.466	62.2	45.1	70.4	83.6	57	1.0	0.475	0.0	62.6	44.1	70.7	83.3	58	1.0	0.467	0.0	0.0	0.457	0.0	61.8	46.2	70.3	84.1	56	1.0	0.467	0.0	0.0
58	59	57	1.0	0.483	62.9	43.2	70.7	82.9	58	1.0	0.489	0.0	63.2	42.6	70.9	82.7	59	1.0	0.483	0.0	0.0	0.472	0.0	62.5	44.5	70.6	83.4	57	1.0	0.483	0.0	0.0
59	60	58	1.0	0.5	63.6	41.3	71.0	82.2	59	1.0	0.502	0.0	63.8	41.1	71.2	82.2	60	1.0	0.5	0.0	0.0	0.488	0.0	63.1	42.8	70.9	82.8	58	1.0	0.5	0.0	0.0
61	61	60	1.0	0.516	64.5	39.3	71.7	81.8	61	1.0	0.513	0.0	64.4	39.7	71.6	81.9	61	1.0	0.517	0.0	0.0	0.502	0.0	63.8	41.1	71.2	82.2	60	1.0	0.517	0.0	0.0
62	62	61	1.0	0.533	65.3	37.2	72.4	81.4	62	1.0	0.525	0.0	64.9	38.3	72.1	81.7	62	1.0	0.533	0.0	0.0	0.515	0.0	64.4	39.5	71.7	81.9	61	1.0	0.533	0.0	0.0
64	63	62	1.0	0.55	66.2	35.1	73.0	81.0	64	1.0	0.536	0.0	65.5	37.0	72.5	81.4	63	1.0	0.55	0.0	0.0	0.527	0.0	65.1	38.0	72.2	81.6	62	1.0	0.55	0.0	0.0
65	64	63	1.0	0.566	67.1	33.0	73.5	80.6	65	1.0	0.547	0.0	66.1	35.6	72.9	81.1	64	1.0	0.567	0.0	0.0	0.54	0.0	65.7	36.5	72.7	81.3	63	1.0	0.567	0.0	0.0
67	65	64	1.0	0.583	67.9	31.0	74.0	80.3	67	1.0	0.558	0.0	66.7	34.2	73.3	80.9	65	1.0	0.583	0.0	0.0	0.552	0.0	66.4	34.9	73.1	81.0	64	1.0	0.583	0.0	0.0
68	66	65	1.0	0.6	68.8	28.9	74.5	79.9	68	1.0	0.569	0.0	67.2	32.8	73.7	80.6	66	1.0	0.6	0.0	0.0	0.564	0.0	67.0	33.4	73.5	80.7	65	1.0	0.6	0.0	0.0
70	67	66	1.0	0.616	69.6	26.8	74.8	79.5	70	1.0	0.58	0.0	67.8	31.4	74.0	80.4	67	1.0	0.617	0.0	0.0	0.577	0.0	67.6	31.8	73.9	80.5	66	1.0	0.617	0.0	0.0
71	68	67	1.0	0.633	70.5	24.7	75.4	79.4	71	1.0	0.591	0.0	68.4	30.0	74.3	80.1	68	1.0	0.633	0.0	0.0	0.589	0.0	68.3	30.3	74.2	80.2	67	1.0	0.633	0.0	0.0
73	69	68	1.0	0.65	71.5	22.7	76.2	79.5	73	1.0	0.602	0.0	69.0	28.6	74.6	79.9	69	1.0	0.65	0.0	0.0	0.602	0.0	68.9	28.7	74.5	79.9	68	1.0	0.65	0.0	0.0
75	70	70	1.0	0.666	72.4	20.6	76.9	79.7	75	1.0	0.614	0.0	69.5	27.2	74.8	79.6	70	1.0	0.667	0												

Data of Maximum color M in colorimetric system sRGB standard device; no separation, 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 *RYGCBM_d*: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; 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}	$LAB^*_{ds361Mi} (x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi}$	$LAB^*_{dex361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}																			
82	75	75	1.0	0.75	0.0	77.2	9.8	79.7	80.4	82	1.0	0.667	0.0	72.5	20.6	77.0	79.7	75	1.0	0.75	0.0	1.0	0.673	0.0	72.8	19.8	77.3	79.8	75	1.0	0.75	0.0	
84	76	76	1.0	0.766	0.0	78.2	7.8	80.6	81.0	84	1.0	0.677	0.0	73.1	19.3	77.4	79.8	76	1.0	0.767	0.0	1.0	0.685	0.0	73.5	18.3	77.7	79.9	76	1.0	0.767	0.0	
85	77	77	1.0	0.783	0.0	79.2	5.8	81.4	81.7	85	1.0	0.688	0.0	73.7	18.0	77.8	79.9	77	1.0	0.783	0.0	1.0	0.696	0.0	74.2	16.9	78.2	80.0	77	1.0	0.783	0.0	
87	78	78	1.0	0.8	0.0	80.2	3.8	82.2	82.3	87	1.0	0.698	0.0	74.3	16.6	78.2	80.0	78	1.0	0.8	0.0	1.0	0.708	0.0	74.8	15.3	78.6	80.1	78	1.0	0.8	0.0	
88	79	80	1.0	0.816	0.0	81.2	1.7	82.9	83.0	88	1.0	0.708	0.0	74.9	15.3	78.6	80.1	79	1.0	0.817	0.0	1.0	0.72	0.0	75.5	13.8	78.9	80.1	80	1.0	0.817	0.0	
90	80	81	1.0	0.833	0.0	82.2	-0.3	83.6	83.6	90	1.0	0.719	0.0	75.5	13.9	78.9	80.1	80	1.0	0.833	0.0	1.0	0.731	0.0	76.2	12.3	79.3	80.2	81	1.0	0.833	0.0	
91	81	82	1.0	0.85	0.0	83.3	-2.5	84.2	84.3	91	1.0	0.729	0.0	76.1	12.6	79.2	80.2	81	1.0	0.85	0.0	1.0	0.743	0.0	76.8	10.8	79.6	80.3	82	1.0	0.85	0.0	
93	82	83	1.0	0.866	0.0	84.3	-4.6	84.8	84.9	93	1.0	0.74	0.0	76.7	11.2	79.5	80.3	82	1.0	0.867	0.0	1.0	0.755	0.0	77.5	9.3	80.1	80.6	83	1.0	0.867	0.0	
94	83	84	1.0	0.883	0.0	85.3	-6.7	85.5	85.8	94	1.0	0.75	0.0	77.3	9.8	79.8	80.4	83	1.0	0.883	0.0	1.0	0.768	0.0	78.3	7.8	80.7	81.1	84	1.0	0.883	0.0	
95	84	85	1.0	0.9	0.0	86.3	-8.5	86.4	86.8	95	1.0	0.762	0.0	78.0	8.5	80.4	80.9	84	1.0	0.9	0.0	1.0	0.78	0.0	79.1	6.2	81.4	81.6	85	1.0	0.9	0.0	
96	85	86	1.0	0.916	0.0	87.4	-10.5	87.2	87.8	96	1.0	0.773	0.0	78.7	7.1	81.0	81.3	85	1.0	0.917	0.0	1.0	0.793	0.0	79.9	4.7	82.0	82.1	86	1.0	0.917	0.0	
98	86	87	1.0	0.933	0.0	88.4	-12.4	88.0	88.9	98	1.0	0.785	0.0	79.3	5.7	81.6	81.8	86	1.0	0.933	0.0	1.0	0.806	0.0	80.6	3.1	82.5	82.6	87	1.0	0.933	0.0	
99	87	88	1.0	0.95	0.0	89.5	-14.4	88.7	89.9	99	1.0	0.796	0.0	80.0	4.3	82.1	82.2	87	1.0	0.95	0.0	1.0	0.819	0.0	81.4	1.5	83.1	83.1	88	1.0	0.95	0.0	
100	88	90	1.0	0.966	0.0	90.5	-16.5	89.4	91.0	100	1.0	0.808	0.0	80.7	2.9	82.6	82.7	88	1.0	0.967	0.0	1.0	0.831	0.0	82.2	0.0	83.6	83.6	90	1.0	0.967	0.0	
101	89	91	1.0	0.983	0.0	91.6	-18.5	90.1	92.0	101	1.0	0.819	0.0	81.4	1.5	83.1	83.1	89	1.0	0.983	0.0	1.0	0.844	0.0	83.0	-1.7	84.1	84.1	91	1.0	0.983	0.0	
102	90	92	1.0	1.0	0.0	92.6	-20.7	90.7	93.0	102	1.0	0.831	0.0	82.1	0.0	83.5	83.5	90	1.0	1.0	0.0	1.0	0.857	0.0	83.7	-3.3	84.5	84.6	92	1.0	1.0	0.0	
103	91	93	0.983	1.0	0.0	92.3	-22.3	90.5	93.2	103	1.0	0.842	0.0	82.8	-1.4	84.0	84.0	91	0.983	1.0	0.0	1.0	0.87	0.0	84.5	-5.1	84.9	85.1	93	0.983	1.0	0.0	
104	92	94	0.966	1.0	0.0	92.0	-24.0	90.2	93.3	104	1.0	0.853	0.0	83.5	-2.8	84.4	84.4	92	0.967	1.0	0.0	1.0	0.886	0.0	85.5	-6.9	85.7	85.9	94	0.967	1.0	0.0	
105	93	95	0.95	1.0	0.0	91.7	-25.6	89.9	93.5	105	1.0	0.865	0.0	84.2	-4.3	84.8	84.9	93	0.95	1.0	0.0	1.0	0.902	0.0	86.5	-8.7	86.5	87.0	95	0.95	1.0	0.0	
106	94	96	0.933	1.0	0.0	91.4	-27.3	89.5	93.6	106	1.0	0.877	0.0	84.9	-5.9	85.2	85.4	94	0.933	1.0	0.0	1.0	0.918	0.0	87.5	-10.6	87.3	88.0	96	0.933	1.0	0.0	
108	95	98	0.916	1.0	0.0	91.1	-28.9	89.1	93.7	108	1.0	0.891	0.0	85.8	-7.4	85.9	86.3	95	0.917	1.0	0.0	1.0	0.934	0.0	88.5	-12.5	88.1	89.0	98	0.917	1.0	0.0	
109	96	99	0.9	1.0	0.0	90.8	-30.6	88.7	93.9	109	1.0	0.904	0.0	86.7	-9.0	86.6	87.1	96	0.9	1.0	0.0	1.0	0.951	0.0	89.6	-14.4	88.8	90.0	99	0.9	1.0	0.0	
110	97	100	0.883	1.0	0.0	90.5	-32.2	88.3	94.0	110	1.0	0.918	0.0	87.5	-10.6	87.3	88.0	97	0.883	1.0	0.0	1.0	0.967	0.0	90.6	-16.4	89.5	91.0	100	0.883	1.0	0.0	
111	98	101	0.866	1.0	0.0	90.3	-33.8	88.0	94.3	111	1.0	0.932	0.0	88.4	-12.3	88.0	88.9	98	0.867	1.0	0.0	1.0	0.983	0.0	91.6	-18.5	90.1	92.0	101	0.867	1.0	0.0	
111	99	102	0.85	1.0	0.0	90.0	-35.4	87.7	94.6	111	1.0	0.946	0.0	89.3	-13.9	88.6	89.7	99	0.85	1.0	0.0	1.0	0.999	0.0	92.6	-20.5	90.7	93.0	102	0.85	1.0	0.0	
112	100	103	0.833	1.0	0.0	89.8	-37.0	87.5	95.0	112	1.0	0.96	0.0	90.2	-15.6	89.2	90.6	100	0.833	1.0	0.0	1.0	0.982	1.0	0.0	92.3	-22.4	90.5	93.2	103	0.833	1.0	0.0
113	101	105	0.816	1.0	0.0	89.5	-38.6	87.2	95.4	113	1.0	0.974	0.0	91.0	-17.4	89.8	91.5	101	0.817	1.0	0.0	1.0	0.963	1.0	0.0	92.0	-24.3	90.2	93.4	105	0.817	1.0	0.0
114	102	106	0.8	1.0	0.0	89.3	-40.1	86.9	95.7	114	1.0	0.988	0.0	91.9	-19.1	90.3	92.3	102	0.8	1.0	0.0	1.0	0.944	1.0	0.0	91.7	-26.1	89.8	93.6	106	0.8	1.0	0.0
115	103	107	0.783	1.0	0.0	89.0	-41.7	86.6	96.1	115	0.998	1.0	0.0	92.6	-20.8	90.7	93.1	103	0.783	1.0	0.0	1.0	0.926	1.0	0.0	91.3	-28.0	89.4	93.7	107	0.783	1.0	0.0
116	104	108	0.766	1.0	0.0	88.7	-43.3	86.2	96.5	116	0.981	1.0	0.0	92.3	-22.5	90.5	93.2	104	0.767	1.0	0.0	1.0	0.907	1.0	0.0	91.0	-29.9	89.0	93.9	108	0.767	1.0	0.0
117	105	109	0.75	1.0	0.0	88.5	-44.9	85.8	96.8	117	0.965	1.0	0.0	92.0	-24.1	90.2	93.4	105	0.75	1.0	0.0	1.0	0.888	1.0	0.0	90.7	-31.7	88.5	94.0	109	0.75	1.0	0.0
118	106	110	0.733	1.0	0.0	88.3	-46.3	85.6	97.4	118	0.949	1.0	0.0	91.8	-25.7	89.9	93.5	106	0.733	1.0	0.0	1.0	0.868	1.0	0.0	90.3	-33.6	88.0	94.3	110	0.733	1.0	0.0
119	107	112	0.716	1.0	0.0	88.1	-47.8	85.4	97.9	119	0.933	1.0	0.0	91.5	-27.3	89.6	93.6	107	0.717	1.0	0.0	1.0	0.848	1.0	0.0	90.0	-35.6	87.8	94.7	112	0.717	1.0	0.0
120	108	113	0.7	1.0	0.0	87.9	-49.2	85.2	98.4	120	0.917	1.0	0.0	91.2	-28.9	89.2	93.8	108	0.7	1.0	0.0	1.0	0.827	1.0	0.0	89.7	-37.5	87.4	95.2	113	0.7	1.0	0.0
120	109	114	0.683	1.0	0.0	87.6	-50.7	84.9	98.9	120	0.901	1.0	0.0	90.9	-30.5	88.8	93.9	109	0.683	1.0	0.0	1.0	0.806	1.0	0.0	89.4	-39.5	87.1	95.7	114	0.683	1.0	0.0
121	110	115	0.666	1.0	0.0	87.4	-52.1	84.7	99.4	121	0.884	1.0	0.0	90.6	-32.1	88.4	94.1	110	0.667	1.0	0.0	1.0	0.786	1.0	0.0	89.1	-41.5	86.7	96.1	115	0.667	1.0	0.0
122	111	116	0.65	1.0	0.0	87.2	-53.6	84.4	100.0	122	0.868	1.0	0.0	90.3	-33.7	88.0	94.3	111	0.65	1.0	0.0	1.0	0.765	1.0	0.0	88.8	-43.4	86.2	96.6	116	0.65	1.0	0.0
123	112	117	0.633	1.0	0.0	87.0	-55.0	84.1	100.5	123	0.85	1.0	0.0	90.1	-35.4	87.8	94.7	112	0.633	1.0	0.0	1.0	0.743	1.0	0.0	88.5	-45.4	85.8	97.1	117	0.633	1.0	0.0
123	113	119	0.616	1.0	0.0	86.8	-56.4	83.8	101.0	123	0.832	1.0	0.0	89.8	-37.1	87.5	95.1	113	0.617	1.0	0.0	1.0	0.719	1.0	0.0	88.2	-47.5	85.5	97.9	119	0.617	1.0	0.0
124	114	120	0.6	1.0	0.0	86.7	-57.6	83.7	101.6	124	0.814	1.0	0.0	89.5	-38.7	87.2	95.5	114	0.6	1.0	0.0	1.0	0.695	1.0	0.0	87.8	-49.6	85.2	98.6	120	0.6	1.0	0.0
125	115	121	0.583	1.0	0.0	86.5	-58.9																										

see similar files: <http://130.149.60.45/~farbmetrik/QE32/QE32.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

Data of Maximum color M in colorimetric system sRGB standard device; no separation, 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 $RYGCBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; 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)	$rgb^*_{dd361Mi}$	$rgb^*_{dd361Mi}$	rgb^*_{ds}	rgb^*_{de}																	
128	120	127	0.5	1.0	0.0	85.7	-65.2 82.4	105.1	128	0.7	1.0	0.0	87.9	-49.1 85.3	98.4	120	0.5	1.0	0.0	0.529	1.0	0.0	86.0	-62.9 82.9	104.1	127	0.5	1.0	0.0	
128	121	128	0.483	1.0	0.0	85.5	-66.2 82.3	105.6	128	0.68	1.0	0.0	87.7	-50.9 84.9	99.1	121	0.483	1.0	0.0	0.498	1.0	0.0	85.7	-65.3 82.4	105.2	128	0.483	1.0	0.0	
129	122	129	0.466	1.0	0.0	85.4	-67.2 82.1	106.1	129	0.659	1.0	0.0	87.4	-52.8 84.6	99.7	122	0.466	1.0	0.0	0.456	1.0	0.0	85.4	-67.8 82.1	106.5	129	0.466	1.0	0.0	
129	123	130	0.45	1.0	0.0	85.3	-68.2 82.0	106.7	129	0.638	1.0	0.0	87.1	-54.6 84.2	100.4	123	0.45	1.0	0.0	0.414	1.0	0.0	85.1	-70.3 81.7	107.9	130	0.45	1.0	0.0	
130	124	131	0.433	1.0	0.0	85.2	-69.2 81.8	107.2	130	0.615	1.0	0.0	86.9	-56.5 83.9	101.1	124	0.433	1.0	0.0	0.372	1.0	0.0	84.7	-72.9 81.3	109.2	131	0.433	1.0	0.0	
130	125	133	0.416	1.0	0.0	85.0	-70.2 81.7	107.8	130	0.589	1.0	0.0	86.6	-58.4 83.6	102.1	125	0.416	1.0	0.0	0.309	1.0	0.0	84.4	-75.6 80.9	110.8	133	0.416	1.0	0.0	
131	126	134	0.4	1.0	0.0	84.9	-71.3 81.5	108.3	131	0.562	1.0	0.0	86.3	-60.4 83.3	103.0	126	0.4	1.0	0.0	0.244	1.0	0.0	84.1	-78.3 80.5	112.4	134	0.4	1.0	0.0	
131	127	135	0.383	1.0	0.0	84.8	-72.3 81.3	108.8	131	0.536	1.0	0.0	86.1	-62.4 83.0	103.9	127	0.383	1.0	0.0	0.132	1.0	0.0	83.8	-81.2 80.1	114.1	135	0.383	1.0	0.0	
132	128	136	0.366	1.0	0.0	84.7	-73.2 81.2	109.3	132	0.51	1.0	0.0	85.8	-64.4 82.6	104.8	128	0.366	1.0	0.0	0.0	1.0	0.073	83.7	-82.3 78.0	113.5	136	0.366	1.0	0.0	
132	129	137	0.35	1.0	0.0	84.6	-73.9 81.1	109.7	132	0.477	1.0	0.0	85.5	-66.5 82.3	105.8	129	0.35	1.0	0.0	0.0	1.0	0.165	83.7	-81.6 74.2	110.4	137	0.35	1.0	0.0	
132	130	138	0.333	1.0	0.0	84.5	-74.6 81.0	110.1	132	0.442	1.0	0.0	85.3	-68.7 82.0	107.0	130	0.333	1.0	0.0	0.0	1.0	0.227	83.8	-80.8 70.5	107.3	138	0.333	1.0	0.0	
132	131	140	0.316	1.0	0.0	84.4	-75.3 80.9	110.6	132	0.406	1.0	0.0	85.0	-70.9 81.6	108.1	131	0.316	1.0	0.0	0.0	1.0	0.273	83.8	-80.0 67.0	104.5	140	0.316	1.0	0.0	
133	132	141	0.3	1.0	0.0	84.3	-76.0 80.8	111.0	133	0.368	1.0	0.0	84.7	-73.1 81.2	109.3	132	0.3	1.0	0.0	0.0	1.0	0.311	83.9	-79.3 63.7	101.8	141	0.3	1.0	0.0	
133	133	142	0.283	1.0	0.0	84.2	-76.8 80.7	111.4	133	0.314	1.0	0.0	84.5	-75.4 80.9	110.7	133	0.283	1.0	0.0	0.0	1.0	0.349	84.0	-78.4 60.4	99.0	142	0.283	1.0	0.0	
133	134	143	0.266	1.0	0.0	84.2	-77.5 80.6	111.8	133	0.261	1.0	0.0	84.2	-77.7 80.6	112.0	134	0.266	1.0	0.0	0.0	1.0	0.383	84.0	-77.5 57.3	96.4	143	0.266	1.0	0.0	
134	135	144	0.25	1.0	0.0	84.1	-78.2 80.5	112.2	134	0.173	1.0	0.0	83.9	-80.2 80.3	113.5	135	0.25	1.0	0.0	0.0	1.0	0.41	84.1	-76.8 54.3	94.1	144	0.25	1.0	0.0	
134	136	145	0.233	1.0	0.0	84.0	-78.7 80.4	112.5	134	0.004	1.0	0.0	83.6	-82.6 79.9	115.0	136	0.233	1.0	0.0	0.0	1.0	0.437	84.2	-75.9 51.5	91.8	145	0.233	1.0	0.0	
134	137	147	0.216	1.0	0.0	84.0	-79.1 80.4	112.8	134	0.0	1.0	0.125	83.7	-82.1 76.6	112.3	137	0.216	1.0	0.0	0.0	1.0	0.464	84.2	-75.0 48.7	89.5	147	0.216	1.0	0.0	
134	138	148	0.2	1.0	0.0	83.9	-79.5 80.3	113.0	134	0.0	1.0	0.178	83.7	-81.4 73.4	109.7	138	0.2	1.0	0.0	0.0	1.0	0.491	84.3	-74.1 45.9	87.2	148	0.2	1.0	0.0	
134	139	149	0.183	1.0	0.0	83.9	-79.9 80.2	113.3	134	0.0	1.0	0.231	83.8	-80.7 70.3	107.1	139	0.183	1.0	0.0	0.0	1.0	0.513	84.4	-73.3 43.4	85.2	149	0.183	1.0	0.0	
135	140	150	0.166	1.0	0.0	83.8	-80.4 80.1	113.5	135	0.0	1.0	0.271	83.8	-80.1 67.3	104.7	140	0.166	1.0	0.0	0.0	1.0	0.533	84.5	-72.5 41.0	83.4	150	0.166	1.0	0.0	
135	141	151	0.15	1.0	0.0	83.8	-80.8 80.2	113.8	135	0.0	1.0	0.303	83.9	-79.4 64.4	102.3	141	0.15	1.0	0.0	0.0	1.0	0.553	84.5	-71.7 38.6	81.6	151	0.15	1.0	0.0	
135	142	152	0.133	1.0	0.0	83.7	-81.2 80.1	114.1	135	0.0	1.0	0.335	83.9	-78.7 61.6	100.0	142	0.133	1.0	0.0	0.0	1.0	0.573	84.6	-70.9 36.3	79.8	152	0.133	1.0	0.0	
135	143	154	0.116	1.0	0.0	83.7	-81.5 80.0	114.2	135	0.0	1.0	0.368	84.0	-77.9 58.8	97.7	143	0.116	1.0	0.0	0.0	1.0	0.593	84.7	-70.0 34.1	77.9	154	0.116	1.0	0.0	
135	144	155	0.1	1.0	0.0	83.7	-81.7 80.0	114.4	135	0.0	1.0	0.393	84.1	-77.3 56.2	95.6	144	0.1	1.0	0.0	0.0	1.0	0.614	84.7	-69.0 31.9	76.1	155	0.1	1.0	0.0	
135	145	156	0.083	1.0	0.0	83.7	-81.9 80.0	114.5	135	0.0	1.0	0.416	84.1	-76.6 53.7	93.6	145	0.083	1.0	0.0	0.0	1.0	0.631	84.8	-68.2 29.8	74.5	156	0.083	1.0	0.0	
135	146	157	0.066	1.0	0.0	83.7	-82.0 79.9	114.6	135	0.0	1.0	0.439	84.2	-75.9 51.3	91.7	146	0.066	1.0	0.0	0.0	1.0	0.646	84.9	-67.5 27.9	73.2	157	0.066	1.0	0.0	
135	147	158	0.049	1.0	0.0	83.6	-82.2 79.9	114.7	135	0.0	1.0	0.462	84.2	-75.1 48.8	89.7	147	0.049	1.0	0.0	0.0	1.0	0.661	85.0	-66.9 26.1	71.9	158	0.049	1.0	0.0	
135	148	159	0.033	1.0	0.0	83.6	-82.4 79.9	114.8	135	0.0	1.0	0.485	84.3	-74.3 46.5	87.7	148	0.033	1.0	0.0	0.0	1.0	0.676	85.0	-66.2 24.3	70.6	159	0.033	1.0	0.0	
135	149	161	0.016	1.0	0.0	83.6	-82.6 79.9	114.9	135	0.0	1.0	0.506	84.4	-73.5 44.2	85.9	149	0.016	1.0	0.0	0.0	1.0	0.691	85.1	-65.4 22.5	69.2	161	0.016	1.0	0.0	
136	150	162	0.0	1.0	0.0	83.6	-82.7 79.8	115.0	136	G_d	0.0	1.0	0.523	84.4	-72.9 42.1	84.3	$150G_s$	0.0	1.0	0.0	0.0	1.0	0.706	85.2	-64.6 20.7	67.9	$162G_e$	0.0	1.0	0.0
136	151	163	0.0	1.0	0.016	83.6	-82.7 79.4	114.6	136	0.0	1.0	0.541	84.5	-72.3 40.1	82.7	151	0.0	1.0	0.017	0.0	1.0	0.718	85.2	-63.9 19.4	66.9	163	0.0	1.0	0.017	
136	152	164	0.0	1.0	0.033	83.6	-82.6 79.0	114.3	136	0.0	1.0	0.558	84.5	-71.6 38.1	81.2	152	0.0	1.0	0.033	0.0	1.0	0.73	85.3	-63.2 18.1	65.9	164	0.0	1.0	0.033	
136	153	164	0.0	1.0	0.05	83.6	-82.5 78.5	113.9	136	0.0	1.0	0.575	84.6	-70.8 36.1	79.6	153	0.0	1.0	0.05	0.0	1.0	0.741	85.3	-62.5 16.8	64.8	164	0.0	1.0	0.05	
136	154	165	0.0	1.0	0.066	83.6	-82.4 78.1	113.5	136	0.0	1.0	0.592	84.7	-70.0 34.2	78.0	154	0.0	1.0	0.067	0.0	1.0	0.752	85.4	-61.9 15.6	63.9	165	0.0	1.0	0.067	
136	155	166	0.0	1.0	0.083	83.6	-82.3 77.6	113.2	136	0.0	1.0	0.61	84.7	-69.2 32.3	76.5	155	0.0	1.0	0.083	0.0	1.0	0.761	85.4	-61.5 14.5	63.2	166	0.0	1.0	0.083	
136	156	167	0.0	1.0	0.1	83.6	-82.2 77.2	112.8	136	0.0	1.0	0.626	84.8	-68.4 30.5	74.9	156	0.0	1.0	0.1	0.0	1.0	0.77	85.5	-61.1 13.3	62.6	167	0.0	1.0	0.1	
136	157	168	0.0	1.0	0.116	83.6	-82.1 76.8	112.5	136	0.0	1.0	0.639	84.9	-67.8 28.8	73.8	157	0.0	1.0	0.117	0.0	1.0	0.778	85.5	-60.6 12.2	61.9	168	0.0	1.0	0.117	
137	158	169	0.0	1.0	0.133	83.6	-82.0 76.0	111.9	137	0.0	1.0	0.652	84.9	-67.3 27.2	72.7	158	0.0	1.0	0.133	0.0	1.0	0.787	85.6	-60.2 11.1	61.3	169	0.0	1.0	0.133	
137	159	170	0.0	1.0	0.15	83.7	-81.8 75.0	111.0	137	0.0	1.0	0.665	85.0	-66.7 25.6	71.6	159	0.0	1.0	0.15	0.0	1.0	0.795	85.6	-59.7 10.1	60.6	170	0.0	1.0	0.15	
137	160	171	0.0	1.0	0.166	83.7	-81.6 74.0	110.2	137	0.0	1.0	0.678	85.0	-66.1 24.1	70.4	160	0.0	1.0	0.167	0.0	1.0	0.804	85.7	-59.2 9.0	60.0	171	0.0	1.0	0.167	
138	161	172	0.0	1.0	0.183	83.7	-81.4 73.0	109.4	138</																					

Data of Maximum color M in colorimetric system sRGB standard device; no separation, 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 *RYGCBM_d*: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; 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	LAB^* dex361Mi (x=LabCh)	rgb^* dd361Mi	LAB^* dex361Mi (x=LabCh)
139	165	175	0.0	1.0	0.25	83.8	-80.5	69.1	106.1	139
139	166	176	0.0	1.0	0.266	83.8	-80.2	67.6	104.9	139
140	167	177	0.0	1.0	0.283	83.8	-79.9	66.1	103.7	140
140	168	178	0.0	1.0	0.3	83.8	-79.6	64.6	102.5	140
141	169	179	0.0	1.0	0.316	83.9	-79.2	63.1	101.3	141
141	170	180	0.0	1.0	0.333	83.9	-78.8	61.7	100.1	141
142	171	181	0.0	1.0	0.35	83.9	-78.4	60.2	98.9	142
142	172	182	0.0	1.0	0.366	84.0	-78.0	58.8	97.7	142
143	173	183	0.0	1.0	0.383	84.0	-77.6	57.2	96.4	143
144	174	184	0.0	1.0	0.4	84.0	-77.1	55.4	94.9	144
145	175	185	0.0	1.0	0.416	84.1	-76.6	53.6	93.5	145
145	176	185	0.0	1.0	0.433	84.1	-76.1	51.8	92.1	145
146	177	186	0.0	1.0	0.45	84.2	-75.6	50.0	90.6	146
147	178	187	0.0	1.0	0.466	84.2	-75.0	48.3	89.2	147
147	179	188	0.0	1.0	0.483	84.3	-74.4	46.6	87.8	147
148	180	189	0.0	1.0	0.5	84.3	-73.7	44.9	86.4	148
149	181	190	0.0	1.0	0.516	84.4	-73.2	42.9	84.8	149
150	182	191	0.0	1.0	0.533	84.4	-72.6	40.9	83.3	150
151	183	192	0.0	1.0	0.55	84.5	-71.9	39.0	81.8	151
152	184	193	0.0	1.0	0.566	84.5	-71.2	37.0	80.3	152
153	185	194	0.0	1.0	0.583	84.6	-70.5	35.2	78.8	153
154	186	195	0.0	1.0	0.6	84.6	-69.7	33.3	77.3	154
155	187	195	0.0	1.0	0.616	84.7	-68.9	31.5	75.8	155
156	188	196	0.0	1.0	0.633	84.8	-68.1	29.5	74.3	156
157	189	197	0.0	1.0	0.65	84.8	-67.4	27.4	72.8	157
159	190	198	0.0	1.0	0.666	84.9	-66.7	25.4	71.3	159
160	191	199	0.0	1.0	0.683	85.0	-65.8	23.4	69.9	160
161	192	200	0.0	1.0	0.7	85.1	-65.0	21.4	68.4	161
163	193	201	0.0	1.0	0.716	85.2	-64.0	19.5	67.0	163
164	194	202	0.0	1.0	0.733	85.2	-63.1	17.6	65.5	164
165	195	203	0.0	1.0	0.75	85.3	-62.0	15.9	64.0	165
167	196	204	0.0	1.0	0.766	85.4	-61.2	13.7	62.8	167
169	197	205	0.0	1.0	0.783	85.5	-60.4	11.5	61.5	169
170	198	206	0.0	1.0	0.8	85.6	-59.5	9.5	60.2	170
172	199	206	0.0	1.0	0.816	85.7	-58.5	7.5	59.0	172
174	200	207	0.0	1.0	0.833	85.8	-57.4	5.5	57.7	174
176	201	208	0.0	1.0	0.85	85.9	-56.3	3.7	56.4	176
177	202	209	0.0	1.0	0.866	86.0	-55.1	1.9	55.2	177
180	203	210	0.0	1.0	0.883	86.1	-54.1	0.0	54.1	180
182	204	211	0.0	1.0	0.9	86.2	-53.2	-2.1	53.2	182
184	205	212	0.0	1.0	0.916	86.3	-52.2	-4.2	52.4	184
187	206	213	0.0	1.0	0.933	86.4	-51.1	-6.3	51.5	187
189	207	214	0.0	1.0	0.95	86.5	-50.0	-8.2	50.7	189
191	208	215	0.0	1.0	0.966	86.6	-48.8	-10.1	49.8	191
194	209	216	0.0	1.0	0.983	86.7	-47.5	-11.8	48.9	194
196	210	216	0.0	1.0	1.0	86.8	-46.1	-13.5	48.1	196
196	210	216	0.0	1.0	1.0	86.8	-46.1	-13.5	48.1	196

1-013830-L0 QE320-71 LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0

TUB-test chart QE32; hue code: $H^*_e=Y00G_e$
48 step hue circles; $rgb-LabCh^*$ tablesinput: $rgb/cmyk \rightarrow rgb_e$
output: transfer to rgb_e

Output: sRGB standard device; no separation, D65, page 9/29

TUB registration: 20130201-QE32/QE32L0NP.PDF /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system sRGB standard device; no separation, 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 $RYGCBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{d361Mi}(x=LabCh)$	C_d	$rgb^*_{ds361Mi}$	$LAB^*_{ds361Mi}(x=LabCh)$	$210C_s$	$rgb^*_{dd361Mi}$	$LAB^*_{de361Mi}$	$LAB^*_{dex361Mi}(x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{dd361Mi}$	rgb^*_{ds}	rgb^*_{de}											
196	210	216	0.0	1.0	1.0	86.8	-46.1 -13.5 48.1	196	0.0	0.927	1.0	81.7	-38.6 -22.2 44.7	210	0.0	0.89	1.0	79.1	-34.2 -25.7 42.9	216	0.0	0.983	1.0	0.0	0.983	1.0
199	211	217	0.0	0.983	1.0	85.6	-44.6 -15.8 47.3	199	0.0	0.922	1.0	81.3	-38.0 -22.8 44.4	211	0.0	0.983	1.0	78.7	-33.6 -26.1 42.7	217	0.0	0.983	1.0	0.0	0.983	1.0
202	212	218	0.0	0.966	1.0	84.5	-42.9 -17.9 46.5	202	0.0	0.917	1.0	81.0	-37.3 -23.3 44.2	212	0.0	0.967	1.0	78.4	-33.0 -26.5 42.4	218	0.0	0.967	1.0	0.0	0.967	1.0
205	213	219	0.0	0.95	1.0	83.3	-41.1 -19.8 45.7	205	0.0	0.911	1.0	80.6	-36.7 -23.8 43.9	213	0.0	0.95	1.0	78.0	-32.3 -26.9 42.2	219	0.0	0.95	1.0	0.0	0.95	1.0
208	214	220	0.0	0.933	1.0	82.1	-39.3 -21.7 44.9	208	0.0	0.906	1.0	80.2	-36.1 -24.3 43.6	214	0.0	0.933	1.0	77.7	-31.9 -27.4 42.2	220	0.0	0.933	1.0	0.0	0.933	1.0
212	215	221	0.0	0.916	1.0	80.9	-37.4 -23.4 44.1	212	0.0	0.901	1.0	79.8	-35.4 -24.8 43.4	215	0.0	0.917	1.0	77.4	-31.5 -27.9 42.3	221	0.0	0.917	1.0	0.0	0.917	1.0
215	216	222	0.0	0.9	1.0	79.7	-35.4 -24.9 43.3	215	0.0	0.895	1.0	79.5	-34.8 -25.3 43.1	216	0.0	0.9	1.0	77.2	-31.1 -28.5 42.3	222	0.0	0.9	1.0	0.0	0.9	1.0
218	217	223	0.0	0.883	1.0	78.5	-33.4 -26.3 42.5	218	0.0	0.89	1.0	79.1	-34.1 -25.7 42.9	217	0.0	0.883	1.0	76.9	-30.7 -29.0 42.4	223	0.0	0.883	1.0	0.0	0.883	1.0
221	218	224	0.0	0.866	1.0	77.4	-31.5 -28.1 42.2	221	0.0	0.885	1.0	78.7	-33.5 -26.1 42.6	218	0.0	0.867	1.0	76.6	-30.3 -29.6 42.5	224	0.0	0.867	1.0	0.0	0.867	1.0
225	219	225	0.0	0.85	1.0	76.2	-29.9 -30.2 42.5	225	0.0	0.879	1.0	78.3	-32.8 -26.6 42.4	219	0.0	0.85	1.0	76.3	-29.9 -30.1 42.6	225	0.0	0.85	1.0	0.0	0.85	1.0
228	220	226	0.0	0.833	1.0	75.0	-28.1 -32.3 42.8	228	0.0	0.874	1.0	77.9	-32.2 -27.0 42.2	220	0.0	0.833	1.0	76.0	-29.4 -30.6 42.6	226	0.0	0.833	1.0	0.0	0.833	1.0
232	221	227	0.0	0.816	1.0	73.8	-26.1 -34.2 43.1	232	0.0	0.87	1.0	77.6	-31.8 -27.6 42.2	221	0.0	0.817	1.0	75.7	-29.0 -31.1 42.7	227	0.0	0.817	1.0	0.0	0.817	1.0
236	222	227	0.0	0.8	1.0	72.6	-24.0 -36.0 43.3	236	0.0	0.865	1.0	77.3	-31.3 -28.2 42.3	222	0.0	0.8	1.0	75.4	-28.5 -31.6 42.8	227	0.0	0.8	1.0	0.0	0.8	1.0
239	223	228	0.0	0.783	1.0	71.4	-21.8 -37.7 43.6	239	0.0	0.861	1.0	77.0	-30.9 -28.8 42.4	223	0.0	0.783	1.0	75.1	-28.1 -32.1 42.8	228	0.0	0.783	1.0	0.0	0.783	1.0
243	224	229	0.0	0.766	1.0	70.2	-19.5 -39.3 43.9	243	0.0	0.856	1.0	76.7	-30.4 -29.4 42.5	224	0.0	0.767	1.0	74.8	-27.6 -32.6 42.9	229	0.0	0.767	1.0	0.0	0.767	1.0
247	225	230	0.0	0.75	1.0	69.1	-17.0 -40.7 44.1	247	0.0	0.851	1.0	76.3	-30.0 -30.0 42.5	225	0.0	0.75	1.0	74.5	-27.1 -33.1 43.0	230	0.0	0.75	1.0	0.0	0.75	1.0
250	226	231	0.0	0.733	1.0	67.9	-15.3 -42.9 45.5	250	0.0	0.847	1.0	76.0	-29.5 -30.6 42.6	226	0.0	0.733	1.0	74.2	-26.6 -33.6 43.0	231	0.0	0.733	1.0	0.0	0.733	1.0
253	227	232	0.0	0.716	1.0	66.7	-13.5 -44.9 46.9	253	0.0	0.842	1.0	75.7	-29.0 -31.1 42.7	227	0.0	0.717	1.0	73.9	-26.1 -34.1 43.1	232	0.0	0.717	1.0	0.0	0.717	1.0
256	228	233	0.0	0.7	1.0	65.5	-11.4 -46.9 48.3	256	0.0	0.838	1.0	75.4	-28.5 -31.7 42.8	228	0.0	0.7	1.0	73.6	-25.6 -34.6 43.2	233	0.0	0.7	1.0	0.0	0.7	1.0
259	229	234	0.0	0.683	1.0	64.4	-9.2 -48.8 49.7	259	0.0	0.833	1.0	75.0	-28.0 -32.2 42.8	229	0.0	0.683	1.0	73.3	-25.1 -35.0 43.2	234	0.0	0.683	1.0	0.0	0.683	1.0
262	230	235	0.0	0.666	1.0	63.2	-6.8 -50.6 51.1	262	0.0	0.829	1.0	74.7	-27.5 -32.8 42.9	230	0.0	0.667	1.0	73.0	-24.6 -35.5 43.3	235	0.0	0.667	1.0	0.0	0.667	1.0
265	231	236	0.0	0.65	1.0	62.0	-4.2 -52.3 52.5	265	0.0	0.824	1.0	74.4	-26.9 -33.3 43.0	231	0.0	0.65	1.0	72.7	-24.1 -35.9 43.4	236	0.0	0.65	1.0	0.0	0.65	1.0
268	232	237	0.0	0.633	1.0	60.9	-1.5 -53.9 53.9	268	0.0	0.82	1.0	74.1	-26.4 -33.8 43.1	232	0.0	0.633	1.0	72.4	-23.5 -36.3 43.4	237	0.0	0.633	1.0	0.0	0.633	1.0
270	233	237	0.0	0.616	1.0	59.7	0.8 -55.6 55.7	270	0.0	0.815	1.0	73.7	-25.9 -34.3 43.1	233	0.0	0.617	1.0	72.1	-23.0 -36.8 43.5	237	0.0	0.617	1.0	0.0	0.617	1.0
272	234	238	0.0	0.6	1.0	58.6	2.9 -57.7 57.8	272	0.0	0.81	1.0	73.4	-25.3 -34.9 43.2	234	0.0	0.6	1.0	71.8	-22.4 -37.2 43.6	238	0.0	0.6	1.0	0.0	0.6	1.0
274	235	239	0.0	0.583	1.0	57.4	5.1 -59.7 59.9	274	0.0	0.806	1.0	73.1	-24.7 -35.4 43.3	235	0.0	0.583	1.0	71.5	-21.8 -37.6 43.6	239	0.0	0.583	1.0	0.0	0.583	1.0
276	236	240	0.0	0.566	1.0	56.3	7.4 -61.6 62.1	276	0.0	0.801	1.0	72.8	-24.1 -35.8 43.4	236	0.0	0.567	1.0	71.2	-21.3 -38.0 43.7	240	0.0	0.567	1.0	0.0	0.567	1.0
278	237	241	0.0	0.55	1.0	55.2	10.0 -63.6 64.2	278	0.0	0.797	1.0	72.4	-23.6 -36.3 43.4	237	0.0	0.55	1.0	70.9	-20.7 -38.4 43.8	241	0.0	0.55	1.0	0.0	0.55	1.0
280	238	242	0.0	0.533	1.0	54.0	12.6 -65.2 66.4	280	0.0	0.792	1.0	72.1	-23.0 -36.8 43.5	238	0.0	0.533	1.0	70.6	-20.1 -38.8 43.8	242	0.0	0.533	1.0	0.0	0.533	1.0
283	239	243	0.0	0.516	1.0	52.9	15.4 -66.8 68.5	283	0.0	0.788	1.0	71.8	-22.3 -37.2 43.6	239	0.0	0.517	1.0	70.3	-19.5 -39.2 43.9	243	0.0	0.517	1.0	0.0	0.517	1.0
285	240	244	0.0	0.5	1.0	51.7	18.3 -68.3 70.7	285	0.0	0.783	1.0	71.5	-21.7 -37.7 43.6	240	0.0	0.5	1.0	70.1	-18.9 -39.5 44.0	244	0.0	0.5	1.0	0.0	0.5	1.0
286	241	245	0.0	0.483	1.0	50.7	20.6 -70.2 73.2	286	0.0	0.779	1.0	71.1	-21.1 -38.1 43.7	241	0.0	0.483	1.0	69.8	-18.3 -39.9 44.0	245	0.0	0.483	1.0	0.0	0.483	1.0
287	242	246	0.0	0.466	1.0	49.6	22.9 -72.1 75.7	287	0.0	0.774	1.0	70.8	-20.5 -38.6 43.8	242	0.0	0.467	1.0	69.5	-17.7 -40.2 44.1	246	0.0	0.467	1.0	0.0	0.467	1.0
288	243	247	0.0	0.45	1.0	48.6	25.4 -74.0 78.2	288	0.0	0.769	1.0	70.5	-19.8 -39.0 43.9	243	0.0	0.45	1.0	69.2	-17.1 -40.6 44.2	247	0.0	0.45	1.0	0.0	0.45	1.0
290	244	248	0.0	0.433	1.0	47.5	28.0 -75.7 80.7	290	0.0	0.765	1.0	70.2	-19.2 -39.4 43.9	244	0.0	0.433	1.0	68.8	-16.6 -41.2 44.5	248	0.0	0.433	1.0	0.0	0.433	1.0
291	245	248	0.0	0.416	1.0	46.5	30.6 -77.4 83.2	291	0.0	0.76	1.0	69.8	-18.5 -39.8 44.0	245	0.0	0.417	1.0	68.5	-16.1 -41.8 45.0	248	0.0	0.417	1.0	0.0	0.417	1.0
292	246	249	0.0	0.4	1.0	45.4	33.3 -79.0 85.7	292	0.0	0.756	1.0	69.5	-17.8 -40.2 44.1	246	0.0	0.4	1.0	68.1	-15.5 -42.5 45.4	249	0.0	0.4	1.0	0.0	0.4	1.0
294	247	250	0.0	0.383	1.0	44.3	36.2 -80.5 88.2	294	0.0	0.751	1.0	69.2	-17.2 -40.6 44.2	247	0.0	0.383	1.0	67.8	-15.0 -43.1 45.8	250	0.0	0.383	1.0	0.0	0.383	1.0
295	248	251	0.0	0.366	1.0	43.4	38.7 -82.0 90.7	295	0.0	0.746	1.0	68.8	-16.6 -41.2 44.5	248	0.0	0.367	1.0	67.4	-14.4 -43.8 46.2	251	0.0	0.367	1.0	0.0	0.367	1.0
296	249	252	0.0	0.35	1.0	42.5	41.0 -83.6 93.2	296	0.0	0.74	1.0	68.4	-16.0 -41.9 45.0	249	0.0	0.35	1.0	67.0	-13.9 -44.4 46.6	252	0.0	0.35	1.0	0.0	0.35	1.0
296	250	253	0.0	0.333	1.0	41.6	43.4 -85.2 95.6	296	0.0	0.735	1.0	68.0	-15.4 -42.6 45.5	250	0.0	0.333	1.0	66.7	-13.3 -45.0 47.1	253	0.0	0.333	1.0	0.0	0.333	1.0
297	251	254	0.0	0.316	1.0	40.7	45.8 -86.7 98.1	297	0.0	0.729	1.0	67.7	-14.8 -43.3 45.9	251	0.0	0.317	1.0	66.3	-12.7 -45.6 47.5	254	0.0	0.317	1.0	0.0	0.317	1.0
298	252	255	0.0	0.3	1.0	39.8	48.2 -88.2 100.5	298	0.0	0.724	1.0	67.3	-14.2 -44.0 46.4	252	0.0	0.3	1.0	66.0	-12.0 -46.2 47.9	255	0.0	0.3	1.0	0.0	0.3	1.0
299	253	256	0.0	0.283	1.0	38.9	50.7 -89.6 103.0	299	0.0	0.718	1.0	66.9	-13.6 -44.7 46.8	253	0.0	0.283	1.0	65.6	-11.4 -46.8 48.3	256	0.0	0.283	1.0	0.0	0.283	1.0

Data of Maximum color M in colorimetric system sRGB standard device; no separation, 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 $RYGCBM_d$: $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGBM_e$: $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{dsx361Mi} (x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}																			
301	255	258	0.0	0.25	1.0	37.1	55.9	-92.3	107.9	301	0.0	0.707	1.0	66.1	-12.3	-46.0	47.8	255	0.0	0.25	1.0	0.0	0.69	1.0	64.9	-10.1	-48.0	49.2	258	0.0	0.25	1.0
301	256	258	0.0	0.233	1.0	36.5	57.6	-93.4	109.7	301	0.0	0.702	1.0	65.7	-11.6	-46.7	48.2	256	0.0	0.233	1.0	0.0	0.685	1.0	64.6	-9.4	-48.6	49.6	258	0.0	0.233	1.0
302	257	259	0.0	0.216	1.0	35.9	59.4	-94.5	111.6	302	0.0	0.696	1.0	65.3	-10.9	-47.3	48.7	257	0.0	0.217	1.0	0.0	0.68	1.0	64.2	-8.7	-49.1	50.0	259	0.0	0.217	1.0
302	258	260	0.0	0.2	1.0	35.2	61.2	-95.5	113.5	302	0.0	0.691	1.0	64.9	-10.1	-48.0	49.1	258	0.0	0.2	1.0	0.0	0.675	1.0	63.8	-8.0	-49.7	50.4	260	0.0	0.2	1.0
303	259	261	0.0	0.183	1.0	34.6	63.0	-96.6	115.3	303	0.0	0.685	1.0	64.5	-9.4	-48.6	49.6	259	0.0	0.183	1.0	0.0	0.67	1.0	63.5	-7.2	-50.2	50.9	261	0.0	0.183	1.0
303	260	262	0.0	0.166	1.0	34.0	64.8	-97.6	117.2	303	0.0	0.679	1.0	64.2	-8.6	-49.2	50.1	260	0.0	0.167	1.0	0.0	0.665	1.0	63.1	-6.5	-50.8	51.3	262	0.0	0.167	1.0
304	261	263	0.0	0.15	1.0	33.4	66.7	-98.6	119.1	304	0.0	0.674	1.0	63.8	-7.8	-49.8	50.5	261	0.0	0.15	1.0	0.0	0.66	1.0	62.8	-5.7	-51.3	51.7	263	0.0	0.15	1.0
304	262	264	0.0	0.133	1.0	32.8	68.6	-99.6	120.9	304	0.0	0.668	1.0	63.4	-7.0	-50.4	51.0	262	0.0	0.133	1.0	0.0	0.655	1.0	62.4	-5.0	-51.8	52.1	264	0.0	0.133	1.0
304	263	265	0.0	0.116	1.0	32.3	70.0	-100.3	122.3	304	0.0	0.663	1.0	63.0	-6.2	-51.0	51.5	263	0.0	0.117	1.0	0.0	0.65	1.0	62.1	-4.2	-52.3	52.5	265	0.0	0.117	1.0
305	264	266	0.0	0.1	1.0	32.0	70.8	-100.8	123.2	305	0.0	0.657	1.0	62.6	-5.3	-51.5	51.9	264	0.0	0.1	1.0	0.0	0.645	1.0	61.7	-3.4	-52.8	53.0	266	0.0	0.1	1.0
305	265	267	0.0	0.083	1.0	31.7	71.7	-101.2	124.1	305	0.0	0.652	1.0	62.2	-4.5	-52.1	52.4	265	0.0	0.083	1.0	0.0	0.64	1.0	61.4	-2.5	-53.2	53.4	267	0.0	0.083	1.0
305	266	268	0.0	0.066	1.0	31.5	72.5	-101.7	124.9	305	0.0	0.646	1.0	61.8	-3.6	-52.6	52.8	266	0.0	0.067	1.0	0.0	0.635	1.0	61.0	-1.7	-53.7	53.8	268	0.0	0.067	1.0
305	267	269	0.0	0.049	1.0	31.2	73.4	-102.2	125.8	305	0.0	0.641	1.0	61.4	-2.7	-53.1	53.3	267	0.0	0.05	1.0	0.0	0.63	1.0	60.6	-0.8	-54.1	54.2	269	0.0	0.05	1.0
305	268	269	0.0	0.033	1.0	30.9	74.3	-102.6	126.7	305	0.0	0.635	1.0	61.0	-1.8	-53.6	53.8	268	0.0	0.033	1.0	0.0	0.624	1.0	60.3	0.0	-54.6	54.7	269	0.0	0.033	1.0
306	269	270	0.0	0.016	1.0	30.6	75.1	-103.1	127.6	306	0.0	0.63	1.0	60.6	-0.8	-54.1	54.2	269	0.0	0.017	1.0	0.0	0.617	1.0	59.8	0.8	-55.6	55.7	270	0.0	0.017	1.0
306	270	271	0.0	0.0	1.0	30.3	76.0	-103.5	128.5	306	0.0	0.624	1.0	60.2	0.0	-54.7	54.8	270	0.0	0.0	1.0	0.0	0.609	1.0	59.3	1.7	-56.5	56.6	271	0.0	0.0	1.0
306	271	272	0.016	0.0	1.0	30.4	76.0	-103.4	128.4	306	0.0	0.615	1.0	59.7	1.0	-55.7	55.9	271	0.017	0.0	1.0	0.0	0.602	1.0	58.7	2.7	-57.5	57.6	272	0.017	0.0	1.0
306	272	273	0.033	0.0	1.0	30.5	76.1	-103.3	128.3	306	0.0	0.607	1.0	59.1	2.0	-56.8	56.9	272	0.033	0.0	1.0	0.0	0.594	1.0	58.2	3.7	-58.4	58.6	273	0.033	0.0	1.0
306	273	274	0.05	0.0	1.0	30.6	76.1	-103.1	128.2	306	0.0	0.599	1.0	58.5	3.0	-57.8	58.0	273	0.05	0.0	1.0	0.0	0.586	1.0	57.7	4.8	-59.4	59.7	274	0.05	0.0	1.0
306	274	275	0.066	0.0	1.0	30.7	76.1	-103.0	128.1	306	0.0	0.591	1.0	58.0	4.1	-58.8	59.0	274	0.067	0.0	1.0	0.0	0.578	1.0	57.1	5.8	-60.3	60.7	275	0.067	0.0	1.0
306	275	276	0.083	0.0	1.0	30.8	76.2	-102.8	128.0	306	0.0	0.583	1.0	57.4	5.2	-59.8	60.1	275	0.083	0.0	1.0	0.0	0.57	1.0	56.6	7.0	-61.2	61.7	276	0.083	0.0	1.0
306	276	277	0.1	0.0	1.0	30.9	76.2	-102.7	127.9	306	0.0	0.574	1.0	56.9	6.4	-60.7	61.2	276	0.1	0.0	1.0	0.0	0.563	1.0	56.1	8.1	-62.0	62.7	277	0.1	0.0	1.0
306	277	278	0.116	0.0	1.0	30.9	76.2	-102.5	127.8	306	0.0	0.566	1.0	56.3	7.6	-61.7	62.2	277	0.117	0.0	1.0	0.0	0.555	1.0	55.5	9.3	-62.9	63.7	278	0.117	0.0	1.0
306	278	279	0.133	0.0	1.0	31.1	76.3	-102.3	127.6	306	0.0	0.558	1.0	55.7	8.8	-62.6	63.3	278	0.133	0.0	1.0	0.0	0.547	1.0	55.0	10.5	-63.7	64.7	279	0.133	0.0	1.0
306	279	280	0.15	0.0	1.0	31.3	76.3	-101.9	127.4	306	0.0	0.55	1.0	55.2	10.1	-63.5	64.3	279	0.15	0.0	1.0	0.0	0.539	1.0	54.5	11.7	-64.5	65.7	280	0.15	0.0	1.0
306	280	281	0.166	0.0	1.0	31.5	76.4	-101.6	127.1	306	0.0	0.541	1.0	54.6	11.4	-64.3	65.4	280	0.167	0.0	1.0	0.0	0.531	1.0	53.9	13.0	-65.3	66.7	281	0.167	0.0	1.0
307	281	282	0.183	0.0	1.0	31.7	76.5	-101.2	126.9	307	0.0	0.533	1.0	54.1	12.7	-65.1	66.5	281	0.183	0.0	1.0	0.0	0.524	1.0	53.4	14.3	-66.1	67.7	282	0.183	0.0	1.0
307	282	283	0.2	0.0	1.0	31.9	76.6	-100.9	126.7	307	0.0	0.525	1.0	53.5	14.0	-66.0	67.5	282	0.2	0.0	1.0	0.0	0.516	1.0	52.9	15.6	-66.8	68.7	283	0.2	0.0	1.0
307	283	284	0.216	0.0	1.0	32.1	76.6	-100.5	126.4	307	0.0	0.517	1.0	52.9	15.4	-66.7	68.6	283	0.217	0.0	1.0	0.0	0.508	1.0	52.3	16.9	-67.5	69.7	284	0.217	0.0	1.0
307	284	285	0.233	0.0	1.0	32.3	76.7	-100.1	126.2	307	0.0	0.508	1.0	52.4	16.9	-67.5	69.7	284	0.233	0.0	1.0	0.0	0.5	1.0	51.8	18.3	-68.2	70.7	285	0.233	0.0	1.0
307	285	285	0.25	0.0	1.0	32.6	76.8	-99.8	125.9	307	0.0	0.5	1.0	51.8	18.3	-68.2	70.7	285	0.25	0.0	1.0	0.0	0.488	1.0	51.0	19.9	-69.6	72.5	285	0.25	0.0	1.0
307	286	286	0.266	0.0	1.0	32.9	77.0	-99.2	125.6	307	0.0	0.488	1.0	51.0	20.0	-69.7	72.6	286	0.267	0.0	1.0	0.0	0.476	1.0	50.3	21.6	-71.0	74.3	286	0.267	0.0	1.0
308	287	287	0.283	0.0	1.0	33.2	77.1	-98.6	125.2	308	0.0	0.475	1.0	50.2	21.8	-71.2	74.5	287	0.283	0.0	1.0	0.0	0.464	1.0	49.5	23.3	-72.4	76.1	287	0.283	0.0	1.0
308	288	288	0.3	0.0	1.0	33.6	77.3	-98.1	124.9	308	0.0	0.462	1.0	49.4	23.6	-72.6	76.4	288	0.3	0.0	1.0	0.0	0.452	1.0	48.8	25.1	-73.7	77.9	288	0.3	0.0	1.0
308	289	289	0.316	0.0	1.0	33.9	77.4	-97.5	124.5	308	0.0	0.45	1.0	48.6	25.5	-74.0	78.3	289	0.317	0.0	1.0	0.0	0.44	1.0	48.0	26.9	-75.0	79.8	289	0.317	0.0	1.0
308	290	290	0.333	0.0	1.0	34.3	77.6	-96.9	124.1	308	0.0	0.437	1.0	47.8	27.4	-75.3	80.2	290	0.333	0.0	1.0	0.0	0.428	1.0	47.2	28.8	-76.2	81.6	290	0.333	0.0	1.0
308	291	291	0.35	0.0	1.0	34.6	77.7	-96.3	123.8	308	0.0	0.424	1.0	47.0	29.4	-76.6	82.1	291	0.35	0.0	1.0	0.0	0.416	1.0	46.5	30.7	-77.4	83.4	291	0.35	0.0	1.0
309	292	292	0.366	0.0	1.0	34.9	77.9	-95.7	123.4	309	0.0	0.412	1.0	46.2	31.5	-77.8	84.1	292	0.367	0.0	1.0	0.0	0.404	1.0	45.7	32.7	-78.5	85.2	292	0.367	0.0	1.0
309	293	293	0.383	0.0	1.0	35.3	78.1	-95.1	123.0	309	0.0	0.399	1.0	45.4	33.6	-79.0	86.0	293	0.383	0.0	1.0	0.0	0.392	1.0	44.9	34.7	-79.7	87.0	293	0.383	0.0	1.0
309	294	294	0.4	0.0	1.0	35.8	78.3	-94.3	122.6	309	0.0	0.386	1.0	44.6	35.7	-80.2	87.9	294	0.4	0.0	1.0	0.0	0.38	1.0	44.2	36.8	-80.7	88.8	294	0.4	0.0	1.0
310	295	295	0.416	0.0	1.0																											

Data of Maximum color M in colorimetric system sRGB standard device; no separation, 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 $RYGCBM_d$; $h_{ab,d} = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2$; Six hue angles of the elementary colours $RYGBM_e$; $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	rgb^*_{dd361M}	$LAB^*_{dsx361Mi} (x=LabCh)$	$rgb^*_{ds361Mi}$	$LAB^*_{dsx361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	$rgb^*_{de361Mi}$	$LAB^*_{dex361Mi} (x=LabCh)$	$rgb^*_{dd361Mi}$	rgb^*_{dd}	rgb^*_{ds}	rgb^*_{de}
311	300	300	0.5 0.0 1.0	38.5 79.8 -89.7 120.0 311	0.0 0.274 1.0	38.4 52.2 -90.4 104.5 300	0.5 0.0 1.0	0.0 0.27 1.0	38.2 52.8 -90.6 105.0 300	0.5 0.0 1.0			
312	301	301	0.516 0.0 1.0	39.1 80.2 -88.7 119.6 312	0.0 0.254 1.0	37.4 55.3 -91.9 107.4 301	0.517 0.0 1.0	0.0 0.251 1.0	37.2 55.7 -92.1 107.7 301	0.517 0.0 1.0			
312	302	302	0.533 0.0 1.0	39.6 80.6 -87.8 119.2 312	0.0 0.222 1.0	36.1 58.8 -94.1 111.0 302	0.533 0.0 1.0	0.0 0.22 1.0	36.0 59.1 -94.2 111.3 302	0.533 0.0 1.0			
312	303	303	0.55 0.0 1.0	40.2 80.9 -86.9 118.8 312	0.0 0.188 1.0	34.8 62.6 -96.3 114.9 303	0.55 0.0 1.0	0.0 0.187 1.0	34.8 62.6 -96.3 115.0 303	0.55 0.0 1.0			
313	304	303	0.566 0.0 1.0	40.7 81.3 -86.0 118.3 313	0.0 0.153 1.0	33.5 66.4 -98.4 118.8 304	0.567 0.0 1.0	0.0 0.154 1.0	33.6 66.3 -98.3 118.6 303	0.567 0.0 1.0			
313	305	304	0.583 0.0 1.0	41.3 81.6 -85.1 117.9 313	0.0 0.109 1.0	32.2 70.4 -100.4 122.7 305	0.583 0.0 1.0	0.0 0.117 1.0	32.4 70.0 -100.2 122.3 304	0.583 0.0 1.0			
314	306	305	0.6 0.0 1.0	41.8 82.0 -84.1 117.5 314	0.0 0.024 1.0	30.8 74.8 -102.8 127.2 306	0.6 0.0 1.0	0.0 0.036 1.0	31.0 74.2 -102.5 126.6 305	0.6 0.0 1.0			
314	307	306	0.616 0.0 1.0	42.4 82.3 -83.2 117.0 314	0.172 0.0 1.0	31.6 76.5 -101.4 127.1 307	0.617 0.0 1.0	0.146 0.0 1.0	31.3 76.4 -102.0 127.5 306	0.617 0.0 1.0			
315	308	307	0.633 0.0 1.0	43.0 82.7 -82.2 116.6 315	0.282 0.0 1.0	33.2 77.2 -98.6 125.3 308	0.633 0.0 1.0	0.263 0.0 1.0	32.9 77.0 -99.3 125.7 307	0.633 0.0 1.0			
315	309	308	0.65 0.0 1.0	43.6 83.2 -81.2 116.3 315	0.357 0.0 1.0	34.8 77.8 -96.0 123.7 309	0.65 0.0 1.0	0.335 0.0 1.0	34.3 77.6 -96.8 124.2 308	0.65 0.0 1.0			
316	310	309	0.666 0.0 1.0	44.2 83.7 -80.2 115.9 316	0.414 0.0 1.0	36.2 78.6 -93.6 122.3 310	0.667 0.0 1.0	0.396 0.0 1.0	35.8 78.3 -94.4 122.8 309	0.667 0.0 1.0			
316	311	310	0.683 0.0 1.0	44.8 84.1 -79.2 115.5 316	0.465 0.0 1.0	37.6 79.4 -91.2 121.0 311	0.683 0.0 1.0	0.445 0.0 1.0	37.1 79.1 -92.2 121.5 310	0.683 0.0 1.0			
317	312	311	0.7 0.0 1.0	45.4 84.6 -78.1 115.2 317	0.513 0.0 1.0	39.0 80.1 -88.9 119.8 312	0.7 0.0 1.0	0.493 0.0 1.0	38.4 79.8 -89.9 120.3 311	0.7 0.0 1.0			
317	313	312	0.716 0.0 1.0	46.0 85.0 -77.1 114.8 317	0.551 0.0 1.0	40.3 81.0 -86.8 118.8 313	0.717 0.0 1.0	0.532 0.0 1.0	39.6 80.6 -87.9 119.3 312	0.717 0.0 1.0			
318	314	313	0.733 0.0 1.0	46.6 85.4 -76.1 114.4 318	0.59 0.0 1.0	41.6 81.8 -84.6 117.8 314	0.733 0.0 1.0	0.569 0.0 1.0	40.8 81.4 -85.8 118.3 313	0.733 0.0 1.0			
318	315	314	0.75 0.0 1.0	47.2 85.8 -75.1 114.0 318	0.628 0.0 1.0	42.8 82.6 -82.5 116.8 315	0.75 0.0 1.0	0.605 0.0 1.0	42.1 82.1 -83.8 117.4 314	0.75 0.0 1.0			
319	316	315	0.766 0.0 1.0	47.9 86.4 -74.0 113.8 319	0.66 0.0 1.0	44.0 83.5 -80.6 116.1 316	0.767 0.0 1.0	0.639 0.0 1.0	43.2 82.9 -81.8 116.6 315	0.767 0.0 1.0			
320	317	316	0.783 0.0 1.0	48.5 87.0 -72.9 113.5 320	0.692 0.0 1.0	45.2 84.4 -78.6 115.4 317	0.783 0.0 1.0	0.669 0.0 1.0	44.3 83.8 -80.0 115.9 316	0.783 0.0 1.0			
320	318	317	0.8 0.0 1.0	49.2 87.5 -71.8 113.2 320	0.724 0.0 1.0	46.3 85.2 -76.6 114.7 318	0.8 0.0 1.0	0.699 0.0 1.0	45.4 84.6 -78.1 115.2 317	0.8 0.0 1.0			
321	319	318	0.816 0.0 1.0	49.8 88.1 -70.7 113.0 321	0.755 0.0 1.0	47.5 86.0 -74.7 114.0 319	0.817 0.0 1.0	0.729 0.0 1.0	46.5 85.4 -76.3 114.5 318	0.817 0.0 1.0			
321	320	319	0.833 0.0 1.0	50.5 88.6 -69.6 112.7 321	0.783 0.0 1.0	48.6 87.0 -72.9 113.6 320	0.833 0.0 1.0	0.758 0.0 1.0	47.6 86.2 -74.5 114.0 319	0.833 0.0 1.0			
322	321	320	0.85 0.0 1.0	51.2 89.1 -68.5 112.4 322	0.81 0.0 1.0	49.7 87.9 -71.1 113.1 321	0.85 0.0 1.0	0.785 0.0 1.0	48.6 87.1 -72.8 113.5 320	0.85 0.0 1.0			
323	322	321	0.866 0.0 1.0	51.8 89.6 -67.4 112.1 323	0.838 0.0 1.0	50.7 88.8 -69.3 112.7 322	0.867 0.0 1.0	0.811 0.0 1.0	49.7 87.9 -71.0 113.1 321	0.867 0.0 1.0			
323	323	321	0.883 0.0 1.0	52.5 90.1 -66.3 111.9 323	0.866 0.0 1.0	51.8 89.6 -67.4 112.2 323	0.883 0.0 1.0	0.837 0.0 1.0	50.7 88.8 -69.3 112.7 321	0.883 0.0 1.0			
324	324	322	0.9 0.0 1.0	53.2 90.8 -65.2 111.8 324	0.892 0.0 1.0	52.9 90.5 -65.7 111.9 324	0.9 0.0 1.0	0.864 0.0 1.0	51.7 89.5 -67.6 112.2 322	0.9 0.0 1.0			
324	325	323	0.916 0.0 1.0	53.8 91.4 -64.1 111.6 324	0.918 0.0 1.0	53.9 91.5 -64.0 111.7 325	0.917 0.0 1.0	0.889 0.0 1.0	52.8 90.4 -65.9 111.9 323	0.917 0.0 1.0			
325	326	324	0.933 0.0 1.0	54.5 92.0 -62.9 111.5 325	0.943 0.0 1.0	55.0 92.4 -62.2 111.5 326	0.933 0.0 1.0	0.913 0.0 1.0	53.7 91.3 -64.3 111.7 324	0.933 0.0 1.0			
326	327	325	0.95 0.0 1.0	55.2 92.6 -61.8 111.4 326	0.969 0.0 1.0	56.0 93.3 -60.5 111.3 327	0.95 0.0 1.0	0.937 0.0 1.0	54.7 92.2 -62.6 111.5 325	0.95 0.0 1.0			
326	328	326	0.966 0.0 1.0	55.9 93.2 -60.7 111.2 326	0.994 0.0 1.0	57.1 94.2 -58.7 111.0 328	0.967 0.0 1.0	0.961 0.0 1.0	55.7 93.1 -61.0 111.3 326	0.967 0.0 1.0			
327	329	327	0.983 0.0 1.0	56.6 93.8 -59.5 111.1 327	1.0 0.0 0.984	57.1 93.9 -56.4 109.6 329	0.983 0.0 1.0	0.985 0.0 1.0	56.7 93.9 -59.3 111.1 327	0.983 0.0 1.0			
328	330	328	1.0 0.0 1.0	57.2 94.3 -58.4 110.9 328	M_d 1.0 0.0 0.962	56.8 93.4 -53.8 107.8 330	M_s 1.0 0.0 1.0	1.0 0.0 0.992	57.2 94.2 -57.4 110.3 328	M_e 1.0 0.0 1.0			
329	331	329	1.0 0.0 0.983	57.0 93.9 -56.4 109.5 329	1.0 0.0 0.941	56.5 92.7 -51.3 106.0 331	1.0 0.0 0.983	1.0 0.0 0.972	56.9 93.6 -54.9 108.6 329	1.0 0.0 0.983			
329	332	330	1.0 0.0 0.966	56.8 93.4 -54.4 108.1 329	1.0 0.0 0.919	56.2 92.0 -48.8 104.2 332	1.0 0.0 0.967	1.0 0.0 0.951	56.7 93.0 -52.5 106.9 330	1.0 0.0 0.967			
330	333	331	1.0 0.0 0.95	56.6 92.9 -52.4 106.7 330	1.0 0.0 0.898	55.9 91.2 -46.4 102.4 333	1.0 0.0 0.95	1.0 0.0 0.931	56.4 92.4 -50.2 105.2 331	1.0 0.0 0.95			
331	334	332	1.0 0.0 0.933	56.4 92.4 -50.5 105.3 331	1.0 0.0 0.876	55.7 90.4 -44.0 100.5 334	1.0 0.0 0.933	1.0 0.0 0.911	56.1 91.7 -47.8 103.4 332	1.0 0.0 0.933			
332	335	333	1.0 0.0 0.916	56.1 91.8 -48.6 103.9 332	1.0 0.0 0.86	55.5 90.0 -41.9 99.3 335	1.0 0.0 0.917	1.0 0.0 0.89	55.8 90.9 -45.5 101.7 333	1.0 0.0 0.917			
332	336	334	1.0 0.0 0.9	55.9 91.2 -46.7 102.5 332	1.0 0.0 0.843	55.3 89.6 -39.8 98.1 336	1.0 0.0 0.9	1.0 0.0 0.871	55.6 90.2 -43.3 100.2 334	1.0 0.0 0.9			
333	337	335	1.0 0.0 0.883	55.7 90.6 -44.8 101.1 333	1.0 0.0 0.827	55.1 89.2 -37.8 96.9 337	1.0 0.0 0.883	1.0 0.0 0.856	55.4 89.9 -41.4 99.0 335	1.0 0.0 0.883			
334	338	336	1.0 0.0 0.866	55.5 90.1 -42.8 99.8 334	1.0 0.0 0.811	54.9 88.8 -35.8 95.8 338	1.0 0.0 0.867	1.0 0.0 0.84	55.2 89.6 -39.4 97.9 336	1.0 0.0 0.867			
335	339	337	1.0 0.0 0.85	55.3 89.8 -40.7 98.6 335	1.0 0.0 0.794	54.7 88.3 -33.8 94.6 339	1.0 0.0 0.85	1.0 0.0 0.825	55.1 89.2 -37.5 96.8 337	1.0 0.0 0.85			
336	340	338	1.0 0.0 0.833	55.1 89.4 -38.6 97.4 336	1.0 0.0 0.778	54.5 87.7 -31.8 93.4 340	1.0 0.0 0.833	1.0 0.0 0.809	54.9 88.7 -35.6 95.7 338	1.0 0.0 0.833			
337	341	339	1.0 0.0 0.816	54.9 88.9 -36.6 96.2 337	1.0 0.0 0.761	54.3 87.2 -29.9 92.2 341	1.0 0.0 0.817	1.0 0.0 0.794	54.7 88.3 -33.7 94.5 339	1.0 0.0 0.817			
338	342	339	1.0 0.0 0.8	54.7 88.4 -34.5 94.9 338	1.0 0.0 0.746	54.2 86.7 -28.1 91.1 342	1.0 0.0 0.8	1.0 0.0 0.778	54.5 87.8 -31.9 93.4 339	1.0 0.0 0.8			
339	343	340	1.0 0.0 0.783	54.5 87.9 -32.5 93.7 339	1.0 0.0 0.733	54.1 86.5 -26.3 90.5 343	1.0 0.0 0.783	1.0 0.0 0.763	54.4 87.2 -30.0 92.3 340	1.0 0.0 0.783			
340	344	341	1.0 0.0 0.766	54.4 87.3 -30.6 92.5 340	1.0 0.0 0.72	53.9 86.3 -24.6 89.8 344	1.0 0.0 0.767	1.0 0.0 0.748	54.2 86.7 -28.3 91.2 341	1.0 0.0 0.767			
341	345	342	1.0 0.0 0.75	54.2 86.7 -28.6 91.3 341	1.0 0.0 0.707	53.8 86.0 -23.0 89.1 345	1.0 0.0 0.75	1.0 0.0 0.735	54.1 86.5 -26.6 90.6 342	1.0 0.0 0.75			

1-0131130-L0 QE320-71 LAB*la0, YN=0%, XYZnw=0.0, 0.0, 0.0, 84.2, 88.6, 96.5, LAB*nw=0.0, 0.0, 0.0, 95.4, 0.0, 0.0

Output: sRGB standard device; no separation, D65, page 12/29

TUB-test chart QE32; hue code: $H^*_e=Y00G_e$
48 step hue circles; $rgb-LabCh$ *tables

input: $rgb/cmyk \rightarrow rgb_e$
output: transfer to rgb_e

TUB registration: 20130201-QE32/QE32L0NP.PDF /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

Data of Maximum color M in colorimetric system sRGB standard device; no separation, 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}* = 40.0, 102.9, 136.0, 196.4, 306.3, 328.2; Six hue angles of the elementary colours *RYGBM_e*: *h_{ab,e}* = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

<i>h_{ab,d}</i>	<i>h_{ab,s}</i>	<i>h_{ab,e}</i>	<i>rgb*</i> <i>dd361M</i>	<i>LAB*</i> <i>ddx361Mi (x=LabCh)</i>	<i>rgb*</i> <i>ds361Mi</i>	<i>LAB*</i> <i>dsx361Mi (x=LabCh)</i>	<i>rgb*</i> <i>dd361Mi</i>	<i>rgb*</i> <i>de361Mi</i>	<i>LAB*</i> <i>dex361Mi (x=LabCh)</i>	<i>rgb*</i> <i>dd361Mi</i>	<i>rgb*</i> <i>ds361Mi</i>	<i>rgb*</i> <i>de361Mi</i>																				
341	345	342	1.0	0.0	0.75	54.2	86.7	-28.6	91.3	341	1.0	0.0	0.707	53.8	86.0	-23.0	89.1	345	1.0	0.0	0.75	1.0	0.0	0.735	54.1	86.5	-26.6	90.6	342	1.0	0.0	0.75
342	346	343	1.0	0.0	0.733	54.0	86.5	-26.4	90.4	342	1.0	0.0	0.695	53.7	85.7	-21.3	88.4	346	1.0	0.0	0.733	1.0	0.0	0.723	54.0	86.3	-25.0	89.9	343	1.0	0.0	0.733
344	347	344	1.0	0.0	0.716	53.8	86.2	-24.2	89.5	344	1.0	0.0	0.682	53.6	85.4	-19.6	87.7	347	1.0	0.0	0.717	1.0	0.0	0.711	53.8	86.1	-23.4	89.3	344	1.0	0.0	0.717
345	348	345	1.0	0.0	0.7	53.7	85.8	-22.0	88.6	345	1.0	0.0	0.669	53.4	85.1	-18.0	87.0	348	1.0	0.0	0.7	1.0	0.0	0.699	53.7	85.8	-21.8	88.6	345	1.0	0.0	0.7
346	349	346	1.0	0.0	0.683	53.5	85.4	-19.9	87.7	346	1.0	0.0	0.656	53.3	84.7	-16.4	86.3	349	1.0	0.0	0.683	1.0	0.0	0.687	53.6	85.6	-20.3	87.9	346	1.0	0.0	0.683
348	350	347	1.0	0.0	0.666	53.4	85.0	-17.8	86.8	348	1.0	0.0	0.643	53.2	84.3	-14.8	85.6	350	1.0	0.0	0.667	1.0	0.0	0.674	53.5	85.2	-18.7	87.3	347	1.0	0.0	0.667
349	351	348	1.0	0.0	0.65	53.2	84.5	-15.7	85.9	349	1.0	0.0	0.63	53.1	83.9	-13.2	84.9	351	1.0	0.0	0.65	1.0	0.0	0.662	53.4	84.9	-17.2	86.6	348	1.0	0.0	0.65
350	352	349	1.0	0.0	0.633	53.0	83.9	-13.6	85.0	350	1.0	0.0	0.619	53.0	83.6	-11.7	84.4	352	1.0	0.0	0.633	1.0	0.0	0.65	53.3	84.5	-15.6	86.0	349	1.0	0.0	0.633
352	353	350	1.0	0.0	0.616	52.9	83.6	-11.4	84.3	352	1.0	0.0	0.608	52.9	83.5	-10.2	84.2	353	1.0	0.0	0.617	1.0	0.0	0.638	53.1	84.1	-14.1	85.3	350	1.0	0.0	0.617
353	354	351	1.0	0.0	0.6	52.8	83.4	-9.1	83.9	353	1.0	0.0	0.597	52.8	83.4	-8.7	83.9	354	1.0	0.0	0.6	1.0	0.0	0.626	53.0	83.7	-12.6	84.7	351	1.0	0.0	0.6
355	355	352	1.0	0.0	0.583	52.7	83.2	-6.9	83.5	355	1.0	0.0	0.586	52.7	83.3	-7.2	83.6	355	1.0	0.0	0.583	1.0	0.0	0.615	52.9	83.6	-11.2	84.4	352	1.0	0.0	0.583
356	356	353	1.0	0.0	0.566	52.5	82.9	-4.6	83.0	356	1.0	0.0	0.575	52.6	83.1	-5.7	83.3	356	1.0	0.0	0.567	1.0	0.0	0.605	52.9	83.5	-9.8	84.1	353	1.0	0.0	0.567
358	357	354	1.0	0.0	0.55	52.4	82.5	-2.4	82.6	358	1.0	0.0	0.564	52.6	82.9	-4.2	83.0	357	1.0	0.0	0.55	1.0	0.0	0.595	52.8	83.4	-8.4	83.8	354	1.0	0.0	0.55
359	358	355	1.0	0.0	0.533	52.3	82.1	-0.1	82.1	359	1.0	0.0	0.554	52.5	82.7	-2.8	82.7	358	1.0	0.0	0.533	1.0	0.0	0.584	52.7	83.2	-7.0	83.5	355	1.0	0.0	0.533
361	359	356	1.0	0.0	0.516	52.1	81.6	2.0	81.7	361	1.0	0.0	0.543	52.4	82.4	-1.3	82.4	359	1.0	0.0	0.517	1.0	0.0	0.574	52.6	83.1	-5.6	83.3	356	1.0	0.0	0.517
362	360	352	1.0	0.0	0.5	52.0	81.1	4.1	81.2	362	1.0	0.0	0.532	52.3	82.1	0.0	82.1	360	1.0	0.0	0.5	1.0	0.0	0.618	53.0	83.6	-11.6	84.4	352	1.0	0.0	0.5
364	361	353	1.0	0.0	0.483	51.9	81.1	6.5	81.3	364	1.0	0.0	0.521	52.2	81.8	1.4	81.8	361	1.0	0.0	0.483	1.0	0.0	0.606	52.9	83.5	-9.9	84.1	353	1.0	0.0	0.483
366	362	354	1.0	0.0	0.466	51.8	81.0	8.8	81.5	366	1.0	0.0	0.51	52.1	81.5	2.8	81.6	362	1.0	0.0	0.467	1.0	0.0	0.594	52.8	83.4	-8.2	83.8	354	1.0	0.0	0.467
367	363	355	1.0	0.0	0.45	51.7	80.8	11.1	81.6	367	1.0	0.0	0.499	52.1	81.2	4.3	81.3	363	1.0	0.0	0.45	1.0	0.0	0.582	52.7	83.2	-6.6	83.5	355	1.0	0.0	0.45
369	364	356	1.0	0.0	0.433	51.6	80.6	13.5	81.7	369	1.0	0.0	0.489	52.0	81.2	5.7	81.4	364	1.0	0.0	0.433	1.0	0.0	0.57	52.6	83.0	-5.0	83.1	356	1.0	0.0	0.433
371	365	357	1.0	0.0	0.416	51.5	80.3	15.8	81.8	371	1.0	0.0	0.479	51.9	81.1	7.1	81.4	365	1.0	0.0	0.417	1.0	0.0	0.558	52.5	82.7	-3.3	82.8	357	1.0	0.0	0.417
372	366	358	1.0	0.0	0.4	51.4	79.9	18.1	81.9	372	1.0	0.0	0.469	51.9	81.1	8.5	81.5	366	1.0	0.0	0.4	1.0	0.0	0.546	52.4	82.5	-1.7	82.5	358	1.0	0.0	0.4
374	367	359	1.0	0.0	0.383	51.4	79.5	20.4	82.1	374	1.0	0.0	0.459	51.8	81.0	9.9	81.6	367	1.0	0.0	0.383	1.0	0.0	0.533	52.3	82.2	-0.1	82.2	359	1.0	0.0	0.383
376	368	360	1.0	0.0	0.366	51.3	79.3	22.7	82.5	376	1.0	0.0	0.449	51.8	80.9	11.4	81.6	368	1.0	0.0	0.367	1.0	0.0	0.521	52.2	81.8	1.4	81.9	360	1.0	0.0	0.367
377	369	362	1.0	0.0	0.35	51.2	79.3	25.1	83.2	377	1.0	0.0	0.439	51.7	80.7	12.8	81.7	369	1.0	0.0	0.35	1.0	0.0	0.509	52.1	81.5	3.0	81.5	362	1.0	0.0	0.35
379	370	363	1.0	0.0	0.333	51.1	79.2	27.4	83.8	379	1.0	0.0	0.429	51.7	80.6	14.2	81.8	370	1.0	0.0	0.333	1.0	0.0	0.497	52.1	81.2	4.5	81.3	363	1.0	0.0	0.333
380	371	364	1.0	0.0	0.316	51.1	79.1	29.7	84.5	380	1.0	0.0	0.418	51.6	80.4	15.6	81.9	371	1.0	0.0	0.317	1.0	0.0	0.486	52.0	81.1	6.1	81.4	364	1.0	0.0	0.317
382	372	365	1.0	0.0	0.3	51.0	78.9	32.1	85.2	382	1.0	0.0	0.408	51.5	80.1	17.0	81.9	372	1.0	0.0	0.3	1.0	0.0	0.475	51.9	81.1	7.7	81.5	365	1.0	0.0	0.3
383	373	366	1.0	0.0	0.283	51.0	78.7	34.4	85.9	383	1.0	0.0	0.398	51.5	79.9	18.4	82.0	373	1.0	0.0	0.283	1.0	0.0	0.464	51.9	81.0	9.3	81.5	366	1.0	0.0	0.283
385	374	367	1.0	0.0	0.266	50.9	78.3	36.8	86.6	385	1.0	0.0	0.388	51.4	79.6	19.9	82.1	374	1.0	0.0	0.267	1.0	0.0	0.452	51.8	80.9	10.9	81.6	367	1.0	0.0	0.267
386	375	368	1.0	0.0	0.25	50.8	77.9	39.2	87.2	386	1.0	0.0	0.378	51.4	79.4	21.3	82.2	375	1.0	0.0	0.25	1.0	0.0	0.441	51.7	80.7	12.5	81.7	368	1.0	0.0	0.25
387	376	369	1.0	0.0	0.233	50.8	78.0	41.2	88.2	387	1.0	0.0	0.367	51.3	79.3	22.7	82.5	376	1.0	0.0	0.233	1.0	0.0	0.43	51.7	80.6	14.0	81.8	369	1.0	0.0	0.233
389	377	370	1.0	0.0	0.216	50.8	78.0	43.3	89.2	389	1.0	0.0	0.356	51.3	79.3	24.3	82.9	377	1.0	0.0	0.217	1.0	0.0	0.418	51.6	80.4	15.6	81.9	370	1.0	0.0	0.217
390	378	372	1.0	0.0	0.2	50.7	78.0	45.4	90.2	390	1.0	0.0	0.345	51.2	79.3	25.8	83.4	378	1.0	0.0	0.2	1.0	0.0	0.407	51.5	80.1	17.2	81.9	372	1.0	0.0	0.2
391	379	373	1.0	0.0	0.183	50.7	77.9	47.5	91.2	391	1.0	0.0	0.334	51.2	79.3	27.3	83.8	379	1.0	0.0	0.183	1.0	0.0	0.396	51.5	79.9	18.8	82.0	373	1.0	0.0	0.183
392	380	374	1.0	0.0	0.166	50.6	77.8	49.6	92.2	392	1.0	0.0	0.323	51.2	79.2	28.8	84.3	380	1.0	0.0	0.167	1.0	0.0	0.385	51.4	79.6	20.3	82.1	374	1.0	0.0	0.167
393	381	375	1.0	0.0	0.15	50.6	77.6	51.7	93.3	393	1.0	0.0	0.312	51.1	79.1	30.4	84.7	381	1.0	0.0	0.15	1.0	0.0	0.373	51.3	79.3	21.9	82.3	375	1.0	0.0	0.15
394	382	376	1.0	0.0	0.133	50.6	77.3	53.9	94.3	394	1.0	0.0	0.301	51.1	79.0	31.9	85.2	382	1.0	0.0	0.133	1.0	0.0	0.361	51.3	79.3	23.6	82.8	376	1.0	0.0	0.133
395	383	377	1.0	0.0	0.116	50.5	77.2	55.6	95.1	395	1.0	0.0	0.291	51.0	78.8	33.5	85.6	383	1.0	0.0	0.117	1.0	0.0	0.349	51.3	79.3	25.3	83.3	377	1.0	0.0	0.117
396	384	378	1.0	0.0	0.1	50.5	77.2	56.8	95.9	396	1.0	0.0	0.28	51.0	78.6	35.0	86.1	384	1.0	0.0	0.1	1.0	0.0	0.337	51.2	79.3	27.0	83.8	378	1.0	0.0	0.1
396	385	379	1.0	0.0	0.083	50.5	77.2	58.1	96.6	396	1.0	0.0																				



see similar files: <http://130.149.60.45/~farbmatrik/QE32/QE32.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

TUB registration: 20130201-QE32/QE32L0NP.PDF /.PS
- application for measurement of display output, no separation

TUB material: code=rha4ta

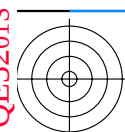
[illegible]

Mean color difference of this page: $\Delta E^* = 26.3$

DE320-7N. Page 14/29-F

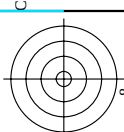
TUB-test chart QE32; hue code: $H^*_e=Y00G_e$

input: *rgb/cmyk* → *rgb*_e
output: transfer to *rgb*_a



TUB registration: 20130201-QE32/QE32L0NP.PDF /.PS
- application for measurement of display output, no separation

TUB material: code=rha4ta



http://130.149.60.45/~farbmatrik/QE32/QE32LONP.PDF /PS; transfer output

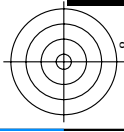
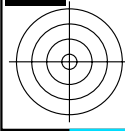
[illegible]

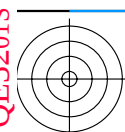
Mean color difference of this page:

TUB-test chart QE32; hue code: $H^*_e=Y00G_e$

input: *rgb/cmyk* → *rgbe*
output: transfer to *rgbe*

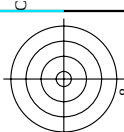
-see similar files: <http://130.149.60.45/~farbmetrik/QE32/QE32.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>





TUB registration: 20130201-QE32/QE32L0NP.PDF /.PS
- application for measurement of display output, no separation

TUB material: code=rha4ta



http://130.149.60.45/~farbmatrik/QE32/QE32LONP.PDF /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 18/29

[illegible]

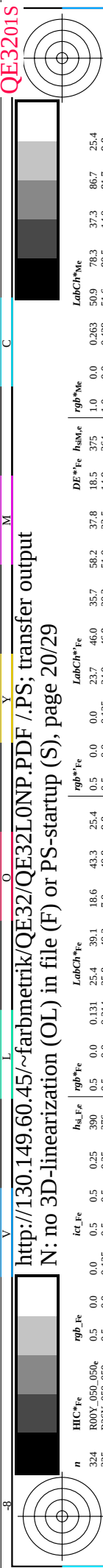
Mean color difference of this page:

TUB-test chart QE32; hue code: $H^*_e=Y00G_e$

input: *rgb/cmyk* → *rgbe*
output: transfer to *rgbe*

74.7

see similar files: <http://130.149.60.45/~farbmatrik/QE32/QE32.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>



TUB registration: 20130201-QE32/QE32L0NP.PDF /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta

http://130.149.60.45/~farbmatrik/QE32/QE32L0NP.PDF /.PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 20/29

see similar files: <http://130.149.60.45/~farbmatrik/QE32/QE32L0NP.PDF> /PS; transfer output
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

n	HfC*Fe	rgb_Fe	icr_Fe	hsa_Fa	rgb*Fe	LabCH*Fe	rgb*Fe	LabCH*Fe	DF*Fe	hsa_Fe	rgb*Fe	LabCH*Fe
324	R050_050_050a	0.5	0.0	0.0	0.5	0.0	0.0	0.0	35.7	58.2	37.8	46.0
325	R050_050_050b	0.5	0.0	0.0	0.5	0.0	0.0	0.0	23.7	46.0	23.7	46.0
326	R050_050_050c	0.5	0.0	0.0	0.5	0.0	0.0	0.0	18.6	43.3	18.6	43.3
327	B050_050_050a	0.5	0.0	0.0	0.5	0.0	0.0	0.0	25.4	43.3	25.4	43.3
328	B050_050_050b	0.5	0.0	0.0	0.5	0.0	0.0	0.0	18.6	43.3	18.6	43.3
329	B050_050_050c	0.5	0.0	0.0	0.5	0.0	0.0	0.0	15.0	40.8	15.0	40.8
330	B050_050_050d	0.5	0.0	0.0	0.5	0.0	0.0	0.0	11.4	38.6	11.4	38.6
331	B050_050_050e	0.5	0.0	0.0	0.5	0.0	0.0	0.0	7.8	36.4	7.8	36.4
332	B050_050_050f	0.5	0.0	0.0	0.5	0.0	0.0	0.0	4.2	34.2	4.2	34.2
333	B050_050_050g	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.6	32.0	0.6	32.0
334	R050_050_050h	0.5	0.0	0.0	0.5	0.0	0.0	0.0	25.4	43.3	25.4	43.3
335	R050_050_050i	0.5	0.0	0.0	0.5	0.0	0.0	0.0	18.6	43.3	18.6	43.3
336	R050_050_050j	0.5	0.0	0.0	0.5	0.0	0.0	0.0	15.0	40.8	15.0	40.8
337	R050_050_050k	0.5	0.0	0.0	0.5	0.0	0.0	0.0	11.4	38.6	11.4	38.6
338	R050_050_050l	0.5	0.0	0.0	0.5	0.0	0.0	0.0	7.8	36.4	7.8	36.4
339	R050_050_050m	0.5	0.0	0.0	0.5	0.0	0.0	0.0	4.2	34.2	4.2	34.2
340	R050_050_050n	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.6	32.0	0.6	32.0
341	R050_050_050o	0.5	0.0	0.0	0.5	0.0	0.0	0.0	25.4	43.3	25.4	43.3
342	R050_050_050p	0.5	0.0	0.0	0.5	0.0	0.0	0.0	18.6	43.3	18.6	43.3
343	R050_050_050q	0.5	0.0	0.0	0.5	0.0	0.0	0.0	15.0	40.8	15.0	40.8
344	R050_050_050r	0.5	0.0	0.0	0.5	0.0	0.0	0.0	11.4	38.6	11.4	38.6
345	R050_050_050s	0.5	0.0	0.0	0.5	0.0	0.0	0.0	7.8	36.4	7.8	36.4
346	R050_050_050t	0.5	0.0	0.0	0.5	0.0	0.0	0.0	4.2	34.2	4.2	34.2
347	R050_050_050u	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.6	32.0	0.6	32.0
348	R050_050_050v	0.5	0.0	0.0	0.5	0.0	0.0	0.0	25.4	43.3	25.4	43.3
349	R050_050_050w	0.5	0.0	0.0	0.5	0.0	0.0	0.0	18.6	43.3	18.6	43.3
350	R050_050_050x	0.5	0.0	0.0	0.5	0.0	0.0	0.0	15.0	40.8	15.0	40.8
351	R050_050_050y	0.5	0.0	0.0	0.5	0.0	0.0	0.0	11.4	38.6	11.4	38.6
352	R050_050_050z	0.5	0.0	0.0	0.5	0.0	0.0	0.0	7.8	36.4	7.8	36.4
353	R050_050_050aa	0.5	0.0	0.0	0.5	0.0	0.0	0.0	4.2	34.2	4.2	34.2
354	R050_050_050ab	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.6	32.0	0.6	32.0
355	R050_050_050ac	0.5	0.0	0.0	0.5	0.0	0.0	0.0	25.4	43.3	25.4	43.3
356	R050_050_050ad	0.5	0.0	0.0	0.5	0.0	0.0	0.0	18.6	43.3	18.6	43.3
357	R050_050_050ae	0.5	0.0	0.0	0.5	0.0	0.0	0.0	15.0	40.8	15.0	40.8
358	R050_050_050af	0.5	0.0	0.0	0.5	0.0	0.0	0.0	11.4	38.6	11.4	38.6
359	R050_050_050ag	0.5	0.0	0.0	0.5	0.0	0.0	0.0	7.8	36.4	7.8	36.4
360	R050_050_050ah	0.5	0.0	0.0	0.5	0.0	0.0	0.0	4.2	34.2	4.2	34.2
361	R050_050_050ai	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.6	32.0	0.6	32.0
362	R050_050_050aj	0.5	0.0	0.0	0.5	0.0	0.0	0.0	25.4	43.3	25.4	43.3
363	R050_050_050ak	0.5	0.0	0.0	0.5	0.0	0.0	0.0	18.6	43.3	18.6	43.3
364	R050_050_050al	0.5	0.0	0.0	0.5	0.0	0.0	0.0	15.0	40.8	15.0	40.8
365	R050_050_050am	0.5	0.0	0.0	0.5	0.0	0.0	0.0	11.4	38.6	11.4	38.6
366	R050_050_050an	0.5	0.0	0.0	0.5	0.0	0.0	0.0	7.8	36.4	7.8	36.4
367	R050_050_050ao	0.5	0.0	0.0	0.5	0.0	0.0	0.0	4.2	34.2	4.2	34.2
368	R050_050_050ap	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.6	32.0	0.6	32.0
369	R050_050_050aq	0.5	0.0	0.0	0.5	0.0	0.0	0.0	25.4	43.3	25.4	43.3
370	R050_050_050ar	0.5	0.0	0.0	0.5	0.0	0.0	0.0	18.6	43.3	18.6	43.3
371	R050_050_050as	0.5	0.0	0.0	0.5	0.0	0.0	0.0	15.0	40.8	15.0	40.8
372	R050_050_050at	0.5	0.0	0.0	0.5	0.0	0.0	0.0	11.4	38.6	11.4	38.6
373	R050_050_050au	0.5	0.0	0.0	0.5	0.0	0.0	0.0	7.8	36.4	7.8	36.4
374	R050_050_050av	0.5	0.0	0.0	0.5	0.0	0.0	0.0	4.2	34.2	4.2	34.2
375	R050_050_050aw	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.6	32.0	0.6	32.0
376	R050_050_050ax	0.5	0.0	0.0	0.5	0.0	0.0	0.0	25.4	43.3	25.4	43.3
377	R050_050_050ay	0.5	0.0	0.0	0.5	0.0	0.0	0.0	18.6	43.3	18.6	43.3
378	R050_050_050az	0.5	0.0	0.0	0.5	0.0	0.0	0.0	15.0	40.8	15.0	40.8
379	R050_050_050ba	0.5	0.0	0.0	0.5	0.0	0.0	0.0	11.4	38.6	11.4	38.6
380	R050_050_050bb	0.5	0.0	0.0	0.5	0.0	0.0	0.0	7.8	36.4	7.8	36.4
381	R050_050_050bc	0.5	0.0	0.0	0.5	0.0	0.0	0.0	4.2	34.2	4.2	34.2
382	R050_050_050bd	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.6	32.0	0.6	32.0
383	R050_050_050be	0.5	0.0	0.0	0.5	0.0	0.0	0.0	25.4	43.3	25.4	43.3
384	R050_050_050bf	0.5	0.0	0.0	0.5	0.0	0.0	0.0	18.6	43.3	18.6	43.3
385	R050_050_050bg	0.5	0.0	0.0	0.5	0.0	0.0	0.0	15.0	40.8	15.0	40.8
386	R050_050_050bh	0.5	0.0	0.0	0.5	0.0	0.0	0.0	11.4	38.6	11.4	38.6
387	R050_050_050bi	0.5	0.0	0.0	0.5	0.0	0.0	0.0	7.8	36.4	7.8	36.4
388	R050_050_050bj	0.5	0.0	0.0	0.5	0.0	0.0	0.0	4.2	34.2	4.2	34.2
389	R050_050_050bk	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.6	32.0	0.6	32.0
390	R050_050_050bl	0.5	0.0	0.0	0.5	0.0	0.0	0.0	25.4	43.3	25.4	43.3
391	R050_050_050bm	0.5	0.0	0.0	0.5	0.0	0.0	0.0	18.6	43.3	18.6	43.3
392	R050_050_050bn	0.5	0.0	0.0	0.5	0.0	0.0	0.0	15.0	40.8	15.0	40.8
393	R050_050_050bo	0.5	0.0	0.0	0.5	0.0	0.0	0.0	11.4	38.6	11.4	38.6
394	R050_050_050bp	0.5	0.0	0.0	0.5	0.0	0.0	0.0	7.8	36.4	7.8	36.4
395	R050_050_050bq	0.5	0.0	0.0	0.5	0.0	0.0	0.0	4.2	34.2	4.2	34.2
396	R050_050_050br	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.6	32.0	0.6	32.0
397	R050_050_050bs	0.5	0.0	0.0	0.5	0.0	0.0	0.0	25.4	43.3	25.4	43.3
398	R050_050_050bt	0.5	0.0	0.0	0.5	0.0	0.0	0.0	18.6	43.3	18.6	43.3
399	R050_050_050bu	0.5	0.0	0.0	0.5	0.0	0.0	0.0	15.0	40.8	15.0	40.8
400	R050_050_050bv	0.5	0.0	0.0	0.5	0.0	0.0	0.0	11.4	38.6	11.4	38.6
401	R050_050_050bw	0.5	0.0	0.0	0.5	0.0	0.0	0.0	7.8	36.4	7.8	36.4
402	R050_050_050bx	0.5	0.0	0.0	0.5	0.0	0.0	0.0	4.2	34.2	4.2	34.2
403	R050_050_050by	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.6	32.0	0.6	32.0
404	R050_050_050bz	0.5	0.0	0.0	0.5	0.0	0.0	0.0	25.4	43.3	25.4	43.3

input: rgb/cmyk -> rgb
output: transfer to rgb

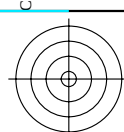
TUB-test chart QE32: hue code: H*=Y00Ge
colors and differences, ΔE*





TUB registration: 20130201-QE32/QE32L0NP.PDF /.PS
- application for measurement of display output, no separation

TUB material: code=rha4ta



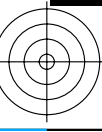
http://130.149.60.45/~farbmatrik/QE32/QE32LONP.PDF /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 21/29

[illegible]

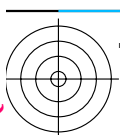
Mean color difference of this range:

TUB-test chart QE32; hue code: H*_e=Y00Ge

input: *rgb/cmyk* -> *rgb*
output: transfer to *rgb*

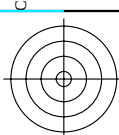


-see similar files: <http://130.149.60.45/~farbmatrik/QE32/QE32.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>



TUB registration: 20130201-QE32/QE32L0NP.PDF /.PS
 application for measurement of display output, no separation

TUB material: code=rha4ta



http://130.149.60.45/~farbmeterik/QE32/QE32LONP.PDF /PS; transfer output : no 3D-linearization (OL) in file (F) or PS-startup (S), page 23/29

n	HIC ^{Fe}	rgb ^{Fe}		lct ^{Fe}		h ₂ ^{Fe}		rgb ^{Fe}		LabCh ^{Fe}		rgb ^{Fe}		LabCh ^{Fe}		DE ^{Fe}		rgb ^{Fe}		LabCh ^{Fe}	
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
567	R00Y_087_087 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
568	R00Y_087_087 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
569	R23Y_087_087 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
570	R00Y_087_087 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
571	B70R_087_087 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
572	B70R_087_087 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
573	B56R_087_087 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
574	B56R_087_087 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
575	B44R_100_100 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
576	R13Y_087_087 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
577	R00Y_087_075 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
578	R35Y_087_075 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
579	R18Y_087_075 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
580	R00Y_087_075 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
581	B57R_087_075 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
582	B57R_087_075 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
583	B43R_100_075 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0
584	B43R_100_075 ^{Fe}	0.875	0.0	0.875	0.0	0.875	0.0	0.875	0.0												

Mean color difference of this page:

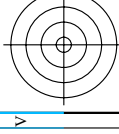
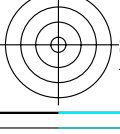
input: *rgb/cmyk* → *rgbe*
output: transfer to *rgbe*

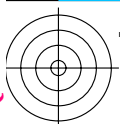
DE320-7N. Page 23/29-F

TUB-test chart QE32; hue code: $H_e^* = Y00G_e$ colors and differences, ΔE^* ,

1-0132220-E0

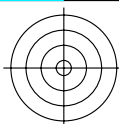
see similar files: <http://130.149.60.45/~farbmatrik/QE32/QE32.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>





TUB registration: 20130201-QE32/QE32L0NP.PDF /.PS
 application for measurement of display output, no separation

TUB material: code=rha4ta



http://130.149.60.45/~farbmatrik/QE32/QE32LONP.PDF /PS; transfer output

N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 24/29

n	HIC ^{Fe}	rgb ^{Fe}	rel ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}	hsa ^{Fe}	rgb ^{Fe}	LabCh ^{Fe}	LabCh ^{Fe}	DF ^{Fe}
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QE320-7N, Page 24/29-F

input: *rgb/cmyk* $\rightarrow$ *rgb*_e

output: transfer to r

TUB-test chart QE32; hue code: $H^*_e=Y00G_e$

colors and differences, ΔE^* ,

1-0132330-F0

M

O

1

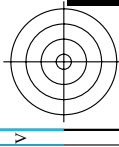
V

-9-

9



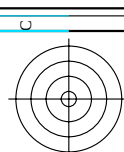
see similar files: <http://130.149.60.45/~farbmatrik/QE32/QE32.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>





TUB registration: 20130201-QE32/QE32L0NP.PDF /.PS
- application for measurement of display output, no separation

TUB material: code=rha4ta



see similar files: <http://130.149.60.45/~farbmetrik/QE32/QE32.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

http://130.149.60.45/~farbmatrik/QE32/QE32L0NP.PDF /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 25/29

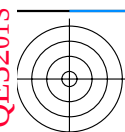
n	HIC-TTC	rgb_Fc	icL_Fc	h4_Fc	rgb_Fc	LabCh_Fc	rgb_Fc	LabCh_Fc	DE**TTC	hasec	rgb_Fc	LabCh_Fc	DE**TTC	hasec	rgb_Fc	LabCh_Fc	DE**TTC	hasec
729	NW_100k	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	0.0	0.0	0.0
730	G50B_100_012k	0.875	1.0	1.0	0.125	0.937	1.0	360	0.875	0.986	1.0	95.4	-4.2	3.2	5.3	216.9	0.875	1.0
731	G50B_100_025k	0.75	1.0	1.0	0.25	0.875	1.0	730	0.875	0.937	1.0	93.3	-4.2	3.2	5.3	216.9	0.875	1.0
732	G50B_100_037k	0.625	1.0	1.0	0.375	0.812	1.0	510	0.875	0.875	1.0	91.0	-4.2	3.2	5.3	216.9	0.875	1.0
733	G50B_100_050k	0.5	1.0	1.0	0.5	0.75	1.0	290	0.875	0.812	1.0	88.7	-4.2	3.2	5.3	216.9	0.875	1.0
734	G50B_100_062k	0.375	1.0	1.0	0.625	0.687	1.0	170	0.875	0.75	1.0	86.4	-4.2	3.2	5.3	216.9	0.875	1.0
735	G50B_100_075k	0.25	1.0	1.0	0.75	0.625	1.0	90	0.875	0.625	1.0	84.1	-4.2	3.2	5.3	216.9	0.875	1.0
736	G50B_100_100k	0.125	1.0	1.0	0.875	0.562	1.0	30	0.875	0.5	1.0	81.8	-4.2	3.2	5.3	216.9	0.875	1.0
737	G50B_100_100k	0.0	1.0	1.0	1.0	0.5	210	0	0.875	0.437	1.0	79.5	-4.2	3.2	5.3	216.9	0.875	1.0
738	ROOY_100_012k	0.875	0.875	0.875	0.125	0.937	360	0.875	0.875	0.907	83.8	9.7	4.6	10.8	25.4	0.875	0.875	0.875
739	NW_067k	0.875	0.875	0.875	0.125	0.937	360	0.875	0.875	0.875	84.1	9.7	4.6	10.8	25.4	0.875	0.875	0.875
740	G50B_087_012k	0.625	0.875	0.875	0.25	0.812	210	0.625	0.875	0.812	81.4	-4.2	3.2	5.3	216.9	0.625	0.875	0.875
741	G50B_087_025k	0.5	0.875	0.875	0.375	0.75	141	0.5	0.875	0.75	79.4	-8.5	-6.4	10.7	216.9	0.5	0.875	0.875
742	G50B_087_050k	0.375	0.875	0.875	0.5	0.625	210	0.375	0.875	0.625	77.3	-12.8	-10.7	16.0	216.9	0.375	0.875	0.875
743	G50B_087_050k	0.25	0.875	0.875	0.625	0.562	210	0.25	0.875	0.562	75.3	-17.1	-14.8	21.4	216.9	0.25	0.875	0.875
744	G50B_087_062k	0.125	0.875	0.875	0.75	0.5	210	0.125	0.875	0.5	73.2	-21.4	-16.1	26.8	216.9	0.125	0.875	0.875
745	G50B_087_075k	0.0	0.875	0.875	0.875	0.5	210	0.0	0.875	0.437	71.2	-25.6	-19.3	32.1	216.9	0.0	0.875	0.875
746	G50B_087_087k	0.0	0.875	0.875	0.875	0.437	210	0.0	0.875	0.375	69.1	-29.9	-22.5	37.5	216.9	0.0	0.875	0.875
747	ROOY_100_025k	1.0	0.75	0.75	1.0	0.25	390	1.0	0.75	0.815	84.2	19.5	9.3	21.6	25.4	1.0	0.75	0.75
748	ROOY_087_012k	0.875	0.75	0.75	0.875	0.125	390	0.875	0.75	0.782	77.5	9.7	4.6	10.8	25.4	0.875	0.75	0.75
749	NW_075k	0.875	0.75	0.75	0.875	0.125	390	0.875	0.75	0.75	71.5	9.7	4.6	10.8	25.4	0.875	0.75	0.75
750	G50B_075_012k	0.625	0.75	0.75	1.0	0.625	210	0.625	0.75	0.75	69.5	-4.2						

0E220-7N Page 25/20-E

TUB-test chart QE32; hue code: $H^*_p=Y00G_p$

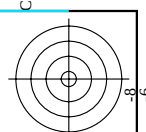
input: $rgb/cmyk \rightarrow rgb_e$
output: transfer to rgb_e

$$\Delta E^* = 11.2$$



TUB registration: 20130201-QE32/QE32L0NP.PDF /.PS
- application for measurement of display output, no separation

TUB material: code=rha4ta



http://130.149.60.45/~farbmatrik/QE32/QE32LONP.PDF /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 26/29

[illegible]

Mean color difference on this page:

TUB-test chart QE32; hue code: H*_e=Y00Ge

input: *rgb/cmyk* -> *rgb*
output: transfer to *rgb*

8

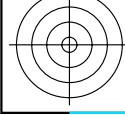
DIPE STIO

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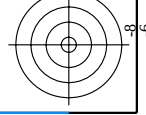
10

W

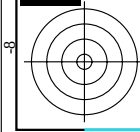
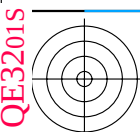
7



see similar files: <http://130.149.60.45/~farbmatrik/QE32/QE32.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmatrik>

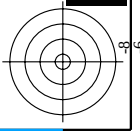
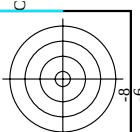


http://130.149.60.45/~farbmetrik/QE32/QE32L0NP.PDF /PS; transfer output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 29/29



TUB registration: 20130201-QE32/QE32L0NP.PDF /.PS
application for measurement of display output, no separation

TUB material: code=rha4ta



see similar files: <http://130.149.60.45/~farbmetrik/QE32/QE32.HTM>
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

n	HC*Fe	rgb_Fe	LabCh*Fe	LabCh*Fe	rgb*Fe	LabCh*Fe	DF*Fe	rgb*Me	LabCh*Me	DF*Fe	rgb*Me	LabCh*Me
1053	NW_086e	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866
1054	NW_093e	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933
1055	NW_100e	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1056	NW_000e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1057	NW_006e	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066
1058	NW_013e	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.133
1059	NW_020e	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
1060	NW_026e	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.266
1061	NW_033e	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.333
1062	NW_040e	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
1063	NW_046e	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.466
1064	NW_053e	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.533
1065	NW_060e	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
1066	NW_066e	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.666
1067	NW_073e	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.734
1068	NW_080e	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
1069	NW_086e	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.866
1070	NW_093e	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.933
1071	NW_100e	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1072	NW_000e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1073	RO0Y_100_100e	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1074	G50B_100_100e	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1075	Y06R_100_100e	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1076	B00R_100_100e	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1077	B00R_100_100e	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1078	B00R_100_100e	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
1079	B50R_100_100e	1.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Mean color difference of this page: $\Delta E^* = 9.3$

TUB-test chart QE32: hue code: H*_e=Y00Ge
colors and differences, ΔE^*

input: *rgb/cmyk* - > *rgb*
output: transfer to *rgb*_e