

Input and Output: Printer Reflective System FRS06a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 31/360 = 0.08$

$H^*_- = R00Y_-$

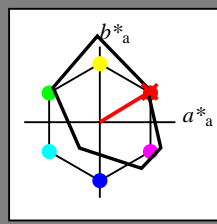
Data for any device (d) or elementary (e) colour:

$HIC^*_-$

hue text for the colours of this page:

$H^*_- = R00Y_-$

triangle lightness  $T^*$



**FRS06a; adapted (a) CIELAB data**

name	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R <sub>-,Ma</sub>	32.5	62.3	46.4	77.7	36
Y <sub>-,Ma</sub>	82.7	-3.1	113.9	114.0	91
G <sub>-,Ma</sub>	39.4	-61.8	45.8	76.9	143
C <sub>-,Ma</sub>	47.8	-26.8	-34.2	43.4	231
B <sub>-,Ma</sub>	10.1	55.1	-61.0	82.2	312
M <sub>-,Ma</sub>	34.5	80.6	-33.9	87.5	337
N <sub>-,Ma</sub>	6.2	0.0	0.0	0.0	0
W <sub>-,Ma</sub>	91.9	0.0	0.0	0.0	0
R <sub>-,CIE</sub>	39.9	58.7	27.9	65.0	25
Y <sub>-,CIE</sub>	81.2	-2.8	71.5	71.6	92
G <sub>-,CIE</sub>	52.2	-42.4	13.6	44.5	162
B <sub>-,CIE</sub>	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{-,Ma}$ : 48 66 40 77 31

$HIC^*_{-,Ma}$ : R00Y\_100\_100\_

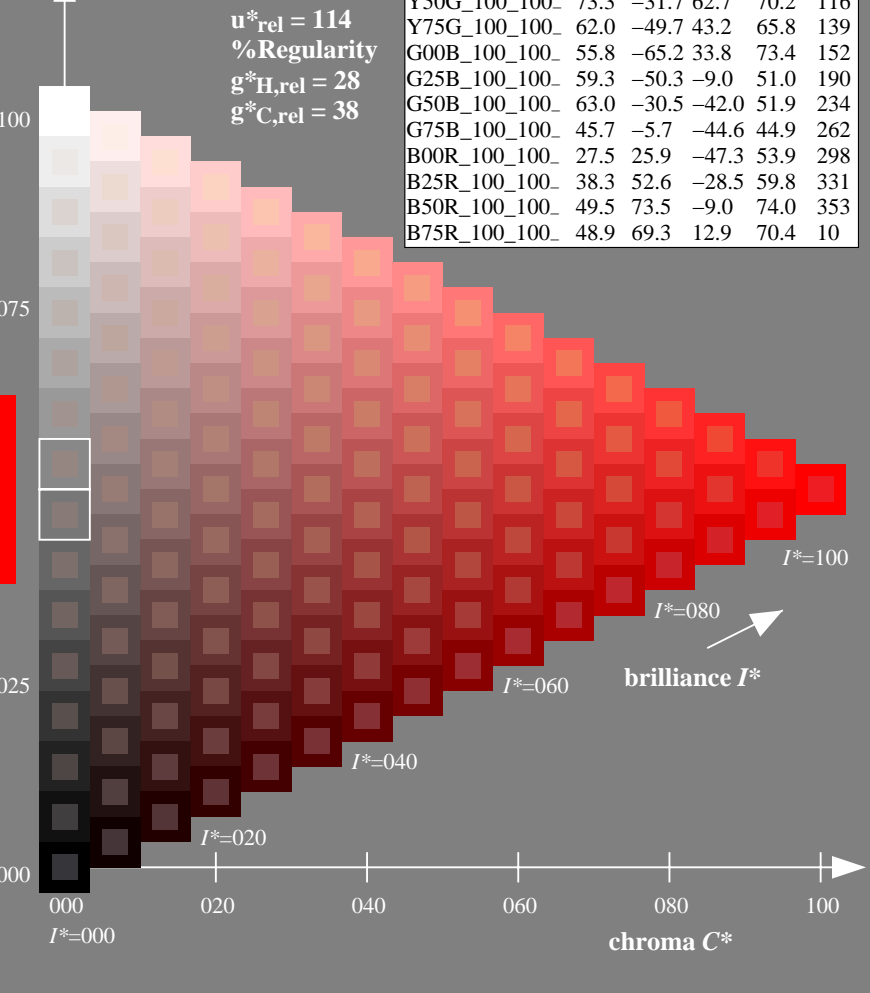
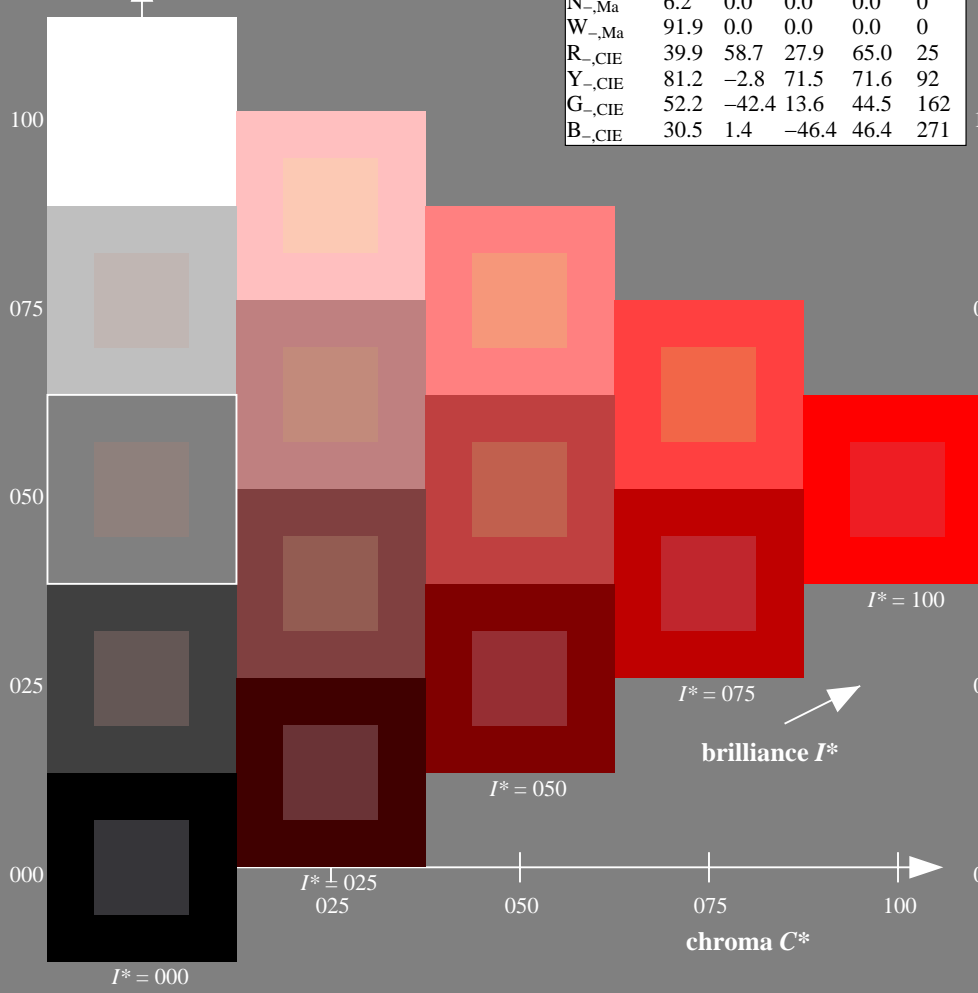
$rgbic^*_{-,Ma}$ :

1.0 0.0 0.0 1.0 1.0

triangle lightness  $T^*$

**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



%Gamut  
 $u^*_{rel} = 114$   
 %Regularity  
 $g^*_{H,rel} = 28$   
 $g^*_{C,rel} = 38$

see similar files: http://130.149.60.45/~farbmetrik/PE99/PE99.HTM  
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20150701-PE99/PE99LOFA.TXT /PS  
application for measurement of laser printer output

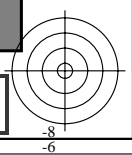
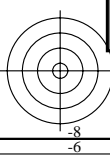
TUB material: code=rh4ta

1-103030-L0 PE990-7N

TUB-test chart PE99; hue code:  $H^*_- = R00Y_-$

Test chart according to DIN 33872, 3D=1, de=0,  $cmk^*$

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

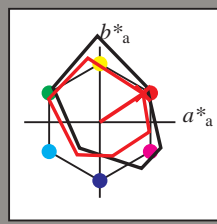


Input and Output: Printer Reflective System FRS06a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 33/360 = 0.09$

$H^*_d = R00Y_d$

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

$HIC^*_d$   
hue text for the colours of this page:  
 $H^*_d = R00Y_d$   
triangle lightness  $T^*$



**LRS18a; adapted (a) CIELAB data**

name	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R <sub>d, Ma</sub>	47.5	57.2	37.8	68.6	33
Y <sub>d, Ma</sub>	91.5	-15.8	84.6	86.1	100
G <sub>d, Ma</sub>	54.3	-67.6	30.8	74.3	155
C <sub>d, Ma</sub>	53.1	-30.0	-43.1	52.5	235
B <sub>d, Ma</sub>	32.5	16.9	-44.6	47.7	290
M <sub>d, Ma</sub>	48.1	65.4	-12.7	66.6	348
N <sub>d, Ma</sub>	23.8	0.0	0.0	0.0	0
W <sub>d, Ma</sub>	95.8	0.0	0.0	0.0	0
R <sub>d, CIE</sub>	39.9	58.7	27.9	65.0	25
Y <sub>d, CIE</sub>	81.2	-2.8	71.5	71.6	92
G <sub>d, CIE</sub>	52.2	-42.4	13.6	44.5	162
B <sub>d, CIE</sub>	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{d, Ma}$ : 47 57 37 68 33

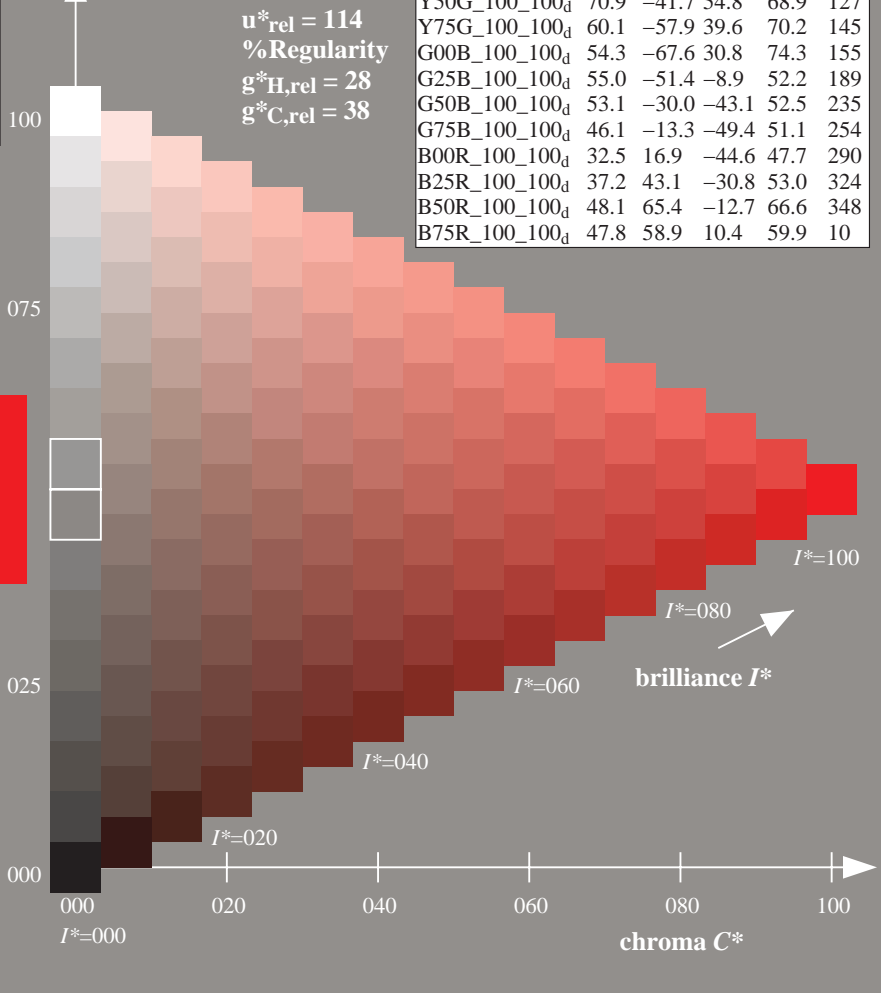
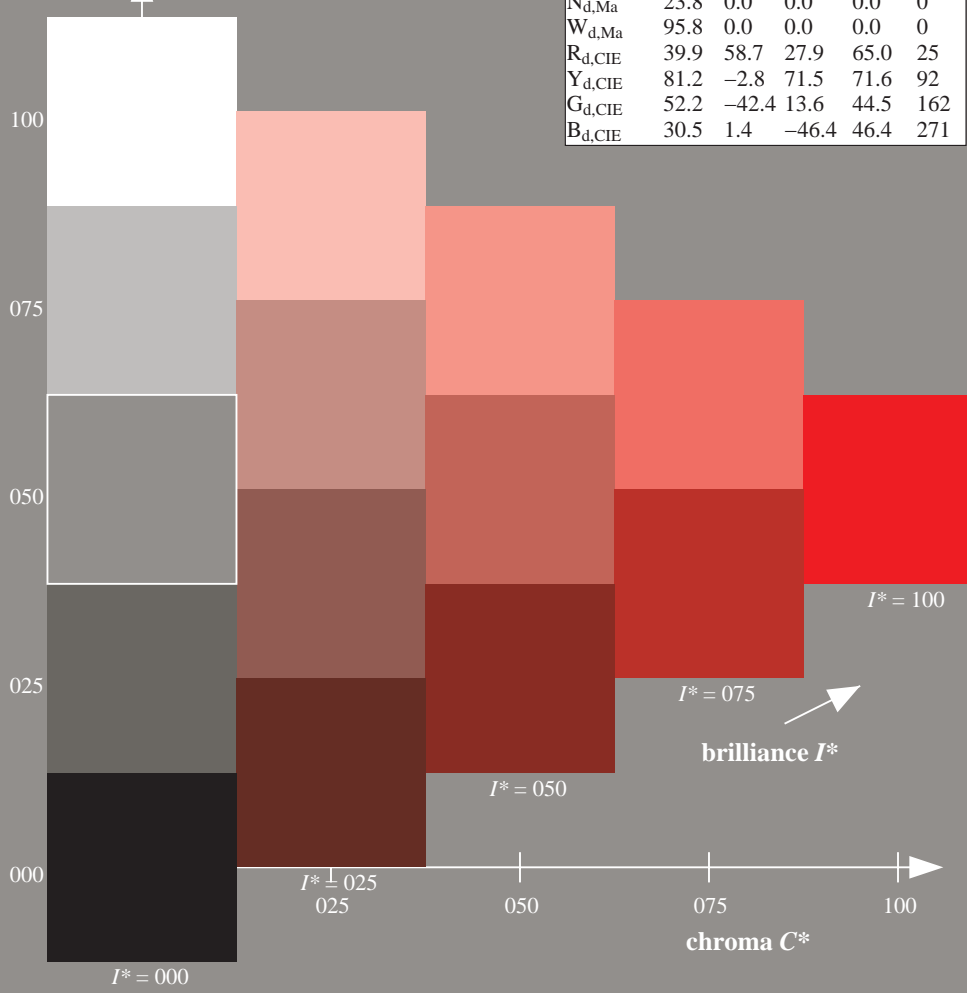
$HIC^*_{d, Ma}$ : R00Y\_100\_100d

$rgbic^*_{d, Ma}$ : 1.0 0.0 0.0 1.0 1.0

triangle lightness  $T^*$

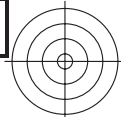
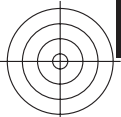
**LRS18a; adapted (a) CIELAB data**

$H^*_d$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100d	47.5	57.2	37.8	68.6	33
R25Y_100_100d	57.4	43.5	54.5	69.7	51
R50Y_100_100d	70.5	19.2	66.2	69.0	73
R75Y_100_100d	83.5	-2.9	76.8	76.9	92
Y00G_100_100d	91.5	-15.8	84.6	86.1	100
Y25G_100_100d	90.4	-20.9	86.5	89.0	103
Y50G_100_100d	70.9	-41.7	54.8	68.9	127
Y75G_100_100d	60.1	-57.9	39.6	70.2	145
G00B_100_100d	54.3	-67.6	30.8	74.3	155
G25B_100_100d	55.0	-51.4	-8.9	52.2	189
G50B_100_100d	53.1	-30.0	-43.1	52.5	235
G75B_100_100d	46.1	-13.3	-49.4	51.1	254
B00R_100_100d	32.5	16.9	-44.6	47.7	290
B25R_100_100d	37.2	43.1	-30.8	53.0	324
B50R_100_100d	48.1	65.4	-12.7	66.6	348
B75R_100_100d	47.8	58.9	10.4	59.9	10



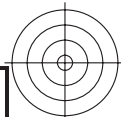
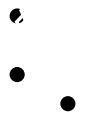
see similar files: <http://130.149.60.45/~farbmetrik/PE99/PE99.HTM>  
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20150701-PE99/PE99L0FA.TXT /.PS  
application for measurement of laser printer output, separation  $cmyn6^*$  (CMYK)  
TUB material: code=rh4ta



see similar files: <http://130.149.60.45/~farbmetrik/PE99/PE99.HTM>  
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20150701-PE99/PE99L0FA.TXT /.PS TUB material: code=rh4ta  
application for measurement of laser printer output, separation cmyk\* (CMYK)

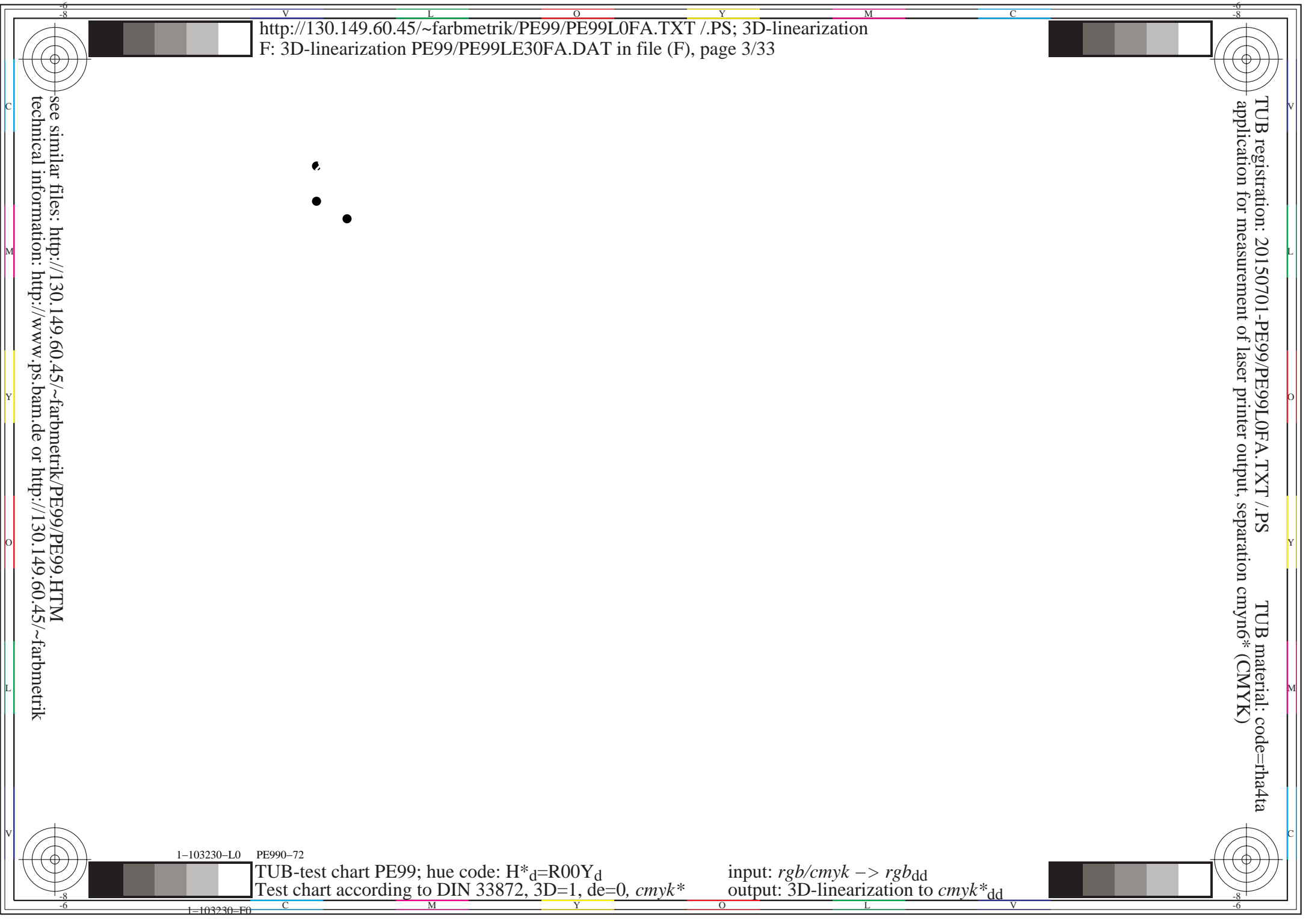


1-103230-L0 PE990-72

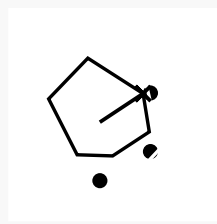
TUB-test chart PE99; hue code:  $H^*_d=R00Y_d$   
Test chart according to DIN 33872, 3D=1, de=0, cmyk\*

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

1=103230-F0

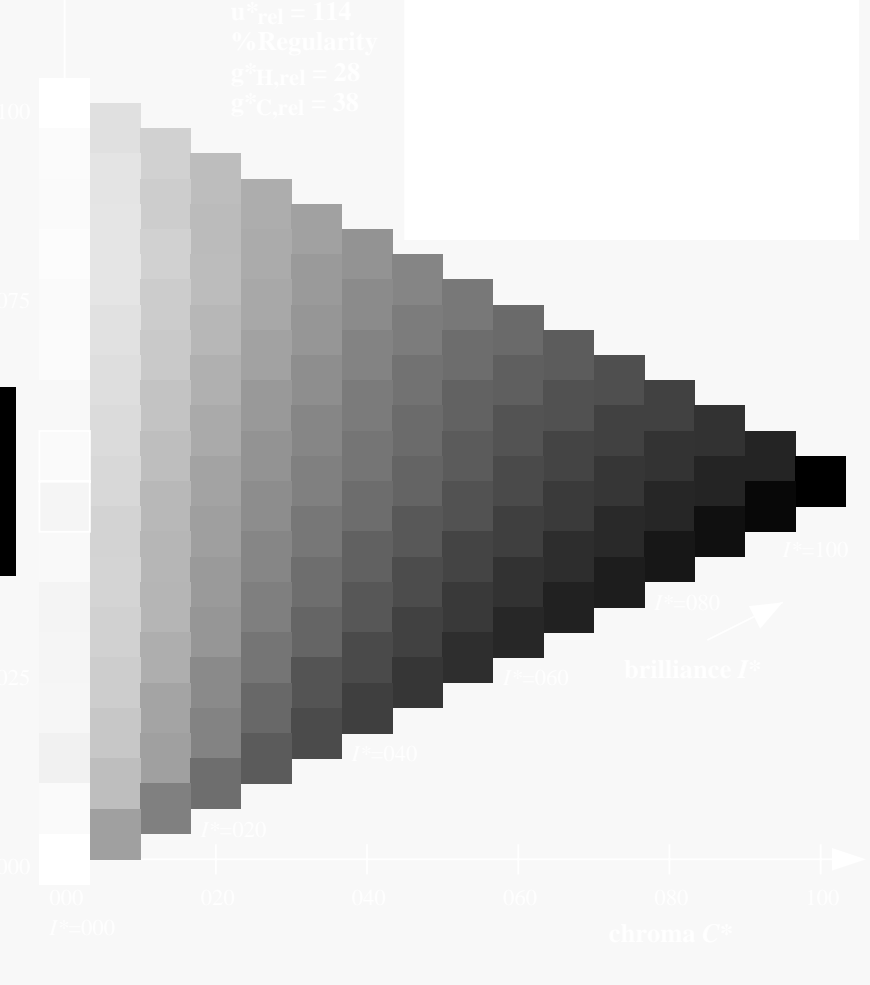
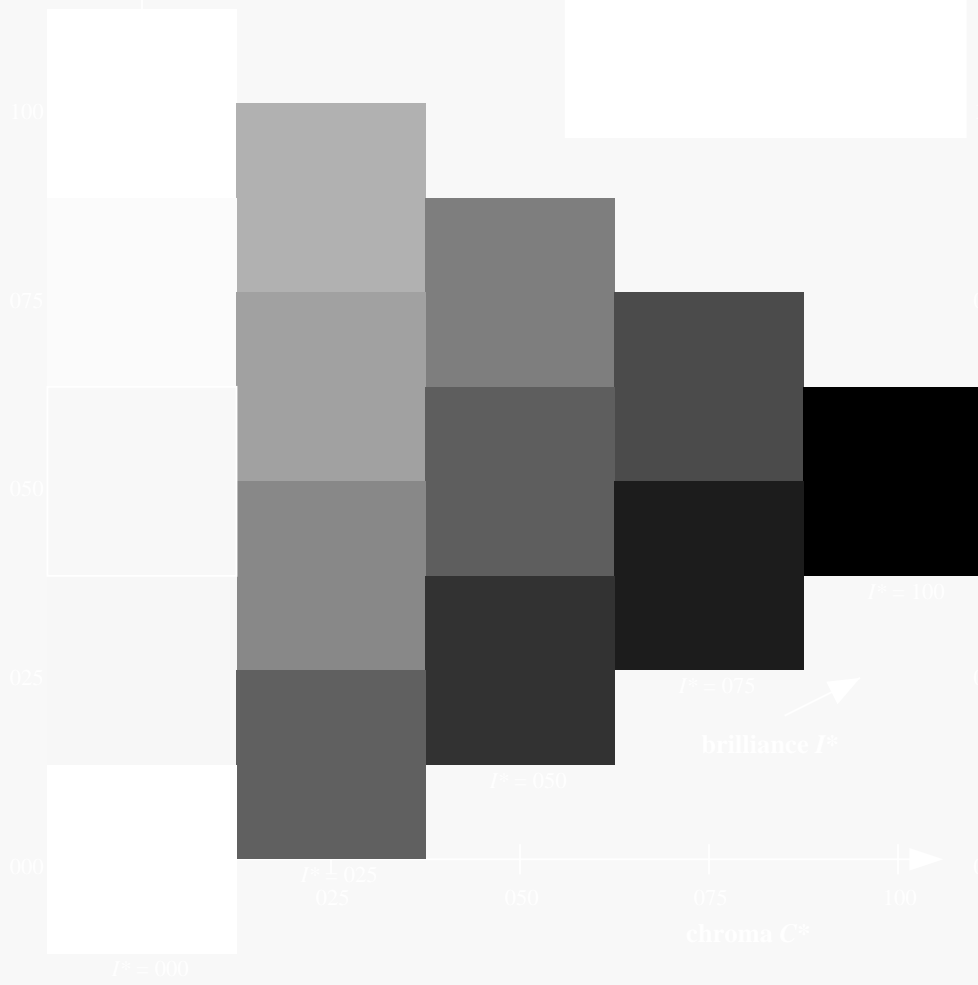


Input and Output: Printer Reflective System PRS06a for relative CIELAB hue  $h_{ab,arel} = h_{ab}/360 = 33/360 = 0.09$   $H^*_d = R00Y_d$   
 Data for any device (d) or elementary (e) colour:  
 $HIC^*_d$   
 hue text for the colours of this page:  
 $H^*_d = R00Y_d$   
 triangle lightness  $T^*$



Data for maximum colour (Ma):  
 $LabCh^*_{d, Ma}: 47\ 57\ 37\ 68\ 33$   
 $HIC^*_{d, Ma}: R00Y\_100\_100_d$   
 $rgbic^*_{d, Ma}: 1.0\ 0.0\ 0.0\ 1.0\ 1.0$   
 triangle lightness  $T^*$

%Gamut  
 $u^*_{rel} = 114$   
 %Regularity  
 $g^*_{H,rel} = 28$   
 $g^*_{C,rel} = 38$



see similar files: <http://130.149.60.45/~farbmetrik/PE99/PE99.HTM>  
 technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20150701-PE99/PE99L0FA.TXT /.PS TUB material: code=rh4ta  
 application for measurement of laser printer output, separation cmyk\* (CMYK)

Input and Output: Printer Reflective System FRS06a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 33/360 = 0.09$

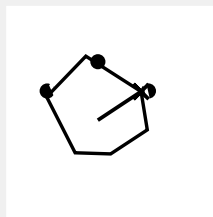
Data for any device (d) or elementary (e) colour:

$HIC^*_d$

hue text for the colours of this page:

$H^*_d = R00Y_d$

triangle lightness  $T^*$



Data for maximum colour ( $M_a$ ):

$LabCh^*_{d,M_a}$ : 47 57 37 68 33

$HIC^*_{d,M_a}$ : R00Y\_100\_100\_d

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

1.0 0.0 0.0 1.0 1.0

triangle lightness  $T^*$

%Gamut

$u^*_{rel} = 114$

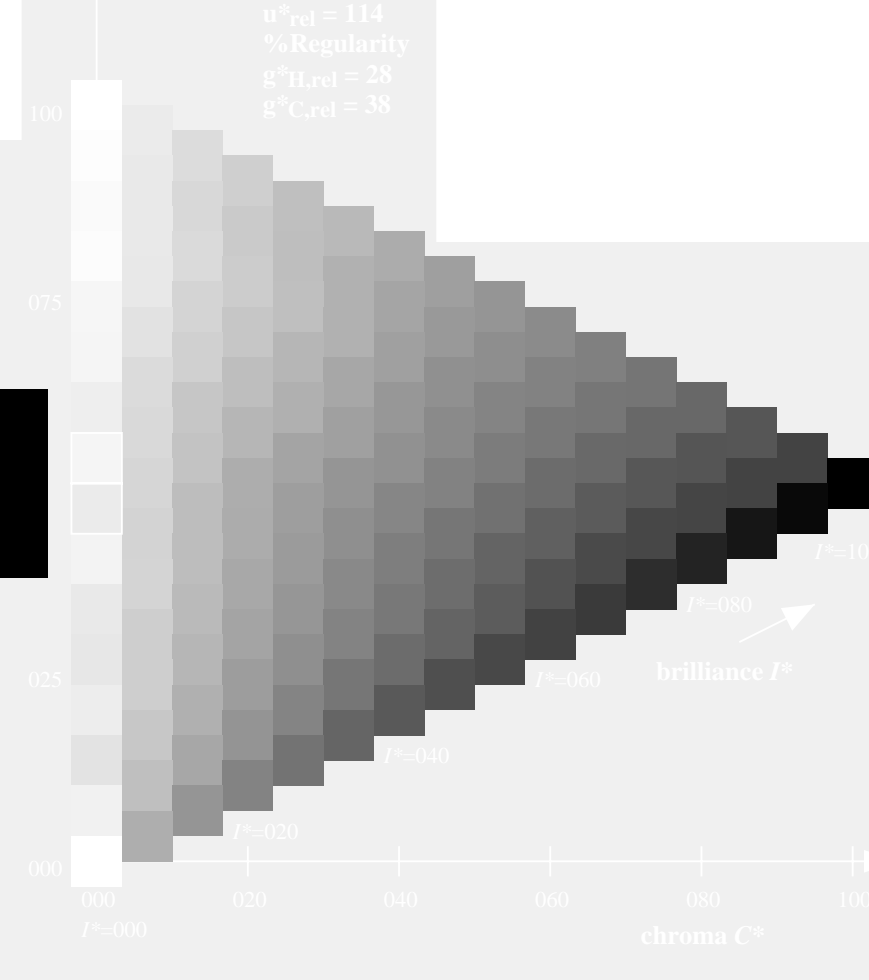
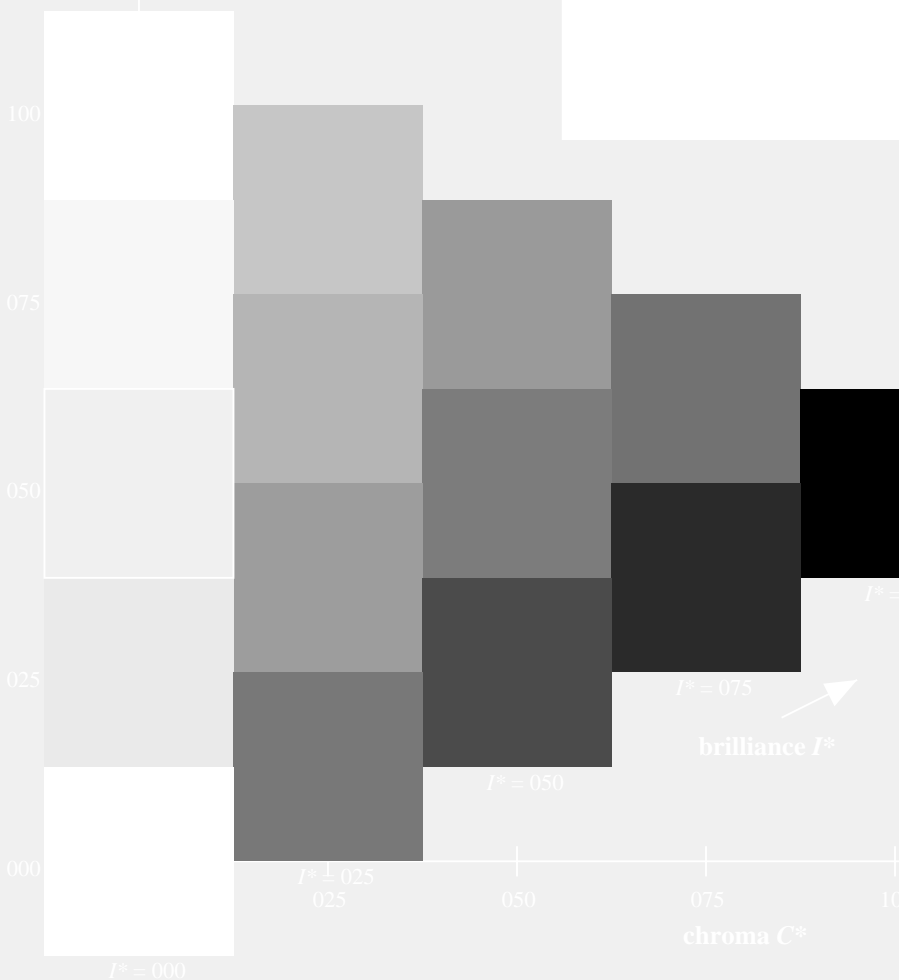
%Regularity

$g^*_{H,rel} = 28$

$g^*_{C,rel} = 38$

$H^*_d = R00Y_d$

see similar files: <http://130.149.60.45/~farbmetrik/PE99/PE99.HTM>  
 technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>



TUB registration: 20150701-PE99/PE99L0FA.TXT /.PS

TUB material: code=rh4ta  
 application for measurement of laser printer output, separation cmyk\* (CMYK)

1-103430-L0 PE990-72

TUB-test chart PE99; hue code:  $H^*_d=R00Y_d$   
 Test chart according to DIN 33872, 3D=1, de=0,  $cmyk^*$

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

1-103430-F0

Input and Output: Printer Reflective System FRS06a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 33/360 = 0.09$

$H^*_d = R00Y_d$

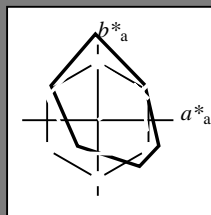
Data for any device (d) or elementary (e) colour:

$HIC^*_d$

hue text for the colours of this page:

$H^*_d = R00Y_d$

triangle lightness  $T^*$



LRS18a; adapted (a) CIELAB data

name	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R <sub>d, Ma</sub>	47.5	57.2	37.8	68.6	33
Y <sub>d, Ma</sub>	91.5	-15.8	84.6	86.1	100
G <sub>d, Ma</sub>	54.3	-67.6	30.8	74.3	155
C <sub>d, Ma</sub>	53.1	-30.0	-43.1	52.5	235
B <sub>d, Ma</sub>	32.5	16.9	-44.6	47.7	290
M <sub>d, Ma</sub>	48.1	65.4	-12.7	66.6	348
N <sub>d, Ma</sub>	23.8	0.0	0.0	0.0	0
W <sub>d, Ma</sub>	95.8	0.0	0.0	0.0	0
R <sub>d, CIE</sub>	39.9	58.7	27.9	65.0	25
Y <sub>d, CIE</sub>	81.2	-2.8	71.5	71.6	92
G <sub>d, CIE</sub>	52.2	-42.4	13.6	44.5	162
B <sub>d, CIE</sub>	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_d, Ma$ : 47 57 37 68 33

$HIC^*_d, Ma$ : R00Y\_100\_100<sub>d</sub>

$rgbic^*_d, Ma$ :

1.0 0.0 0.0 1.0 1.0

triangle lightness  $T^*$

%Gamut

$u^*_{rel} = 114$

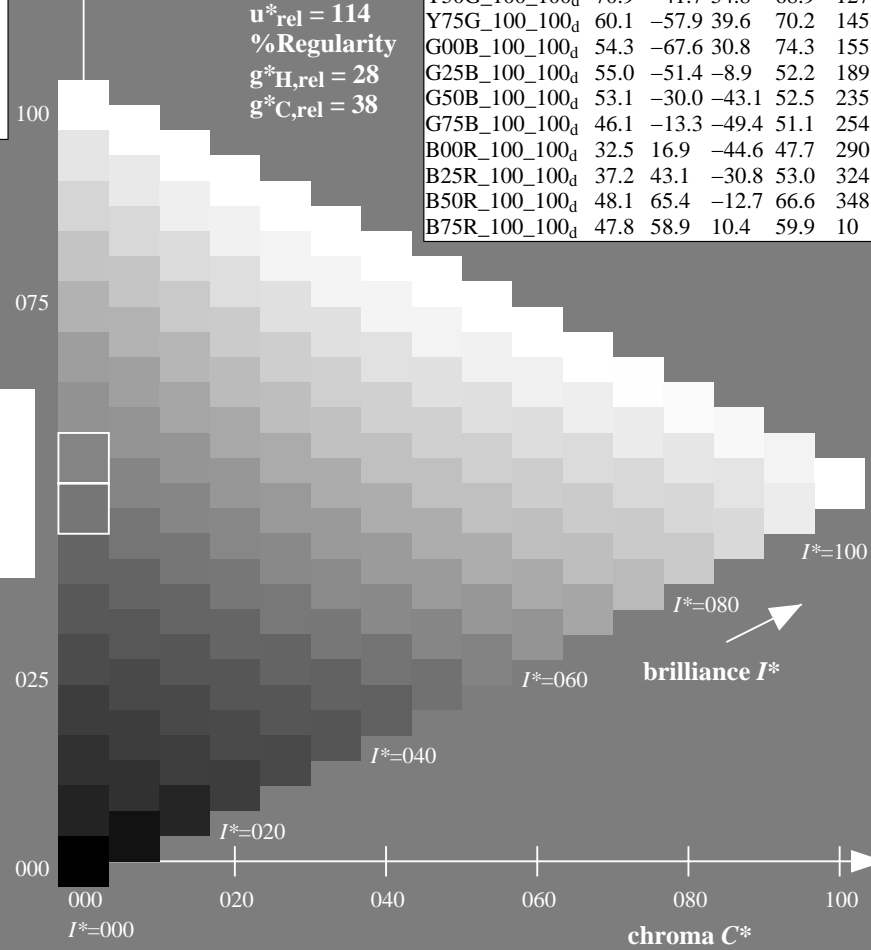
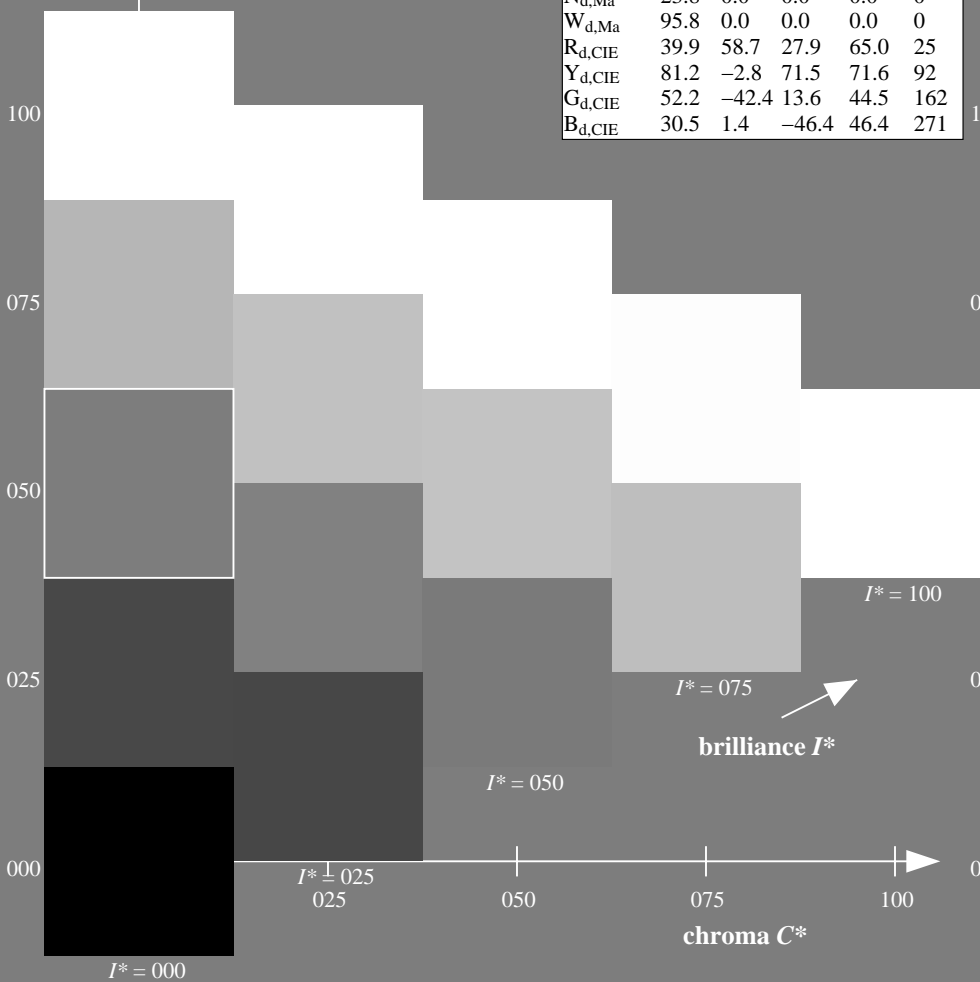
%Regularity

$g^*_{H,rel} = 28$

$g^*_{C,rel} = 38$

LRS18a; adapted (a) CIELAB data

$H^*_d$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100 <sub>d</sub>	47.5	57.2	37.8	68.6	33
R25Y_100_100 <sub>d</sub>	57.4	43.5	54.5	69.7	51
R50Y_100_100 <sub>d</sub>	70.5	19.2	66.2	69.0	73
R75Y_100_100 <sub>d</sub>	83.5	-2.9	76.8	76.9	92
Y00G_100_100 <sub>d</sub>	91.5	-15.8	84.6	86.1	100
Y25G_100_100 <sub>d</sub>	90.4	-20.9	86.5	89.0	103
Y50G_100_100 <sub>d</sub>	70.9	-41.7	54.8	68.9	127
Y75G_100_100 <sub>d</sub>	60.1	-57.9	39.6	70.2	145
G00B_100_100 <sub>d</sub>	54.3	-67.6	30.8	74.3	155
G25B_100_100 <sub>d</sub>	55.0	-51.4	-8.9	52.2	189
G50B_100_100 <sub>d</sub>	53.1	-30.0	-43.1	52.5	235
G75B_100_100 <sub>d</sub>	46.1	-13.3	-49.4	51.1	254
B00R_100_100 <sub>d</sub>	32.5	16.9	-44.6	47.7	290
B25R_100_100 <sub>d</sub>	37.2	43.1	-30.8	53.0	324
B50R_100_100 <sub>d</sub>	48.1	65.4	-12.7	66.6	348
B75R_100_100 <sub>d</sub>	47.8	58.9	10.4	59.9	10



see similar files: <http://130.149.60.45/~farbmetrik/PE99/PE99.HTM>  
 technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20150701-PE99/PE99L0FA.TXT /.PS  
 application for measurement of laser printer output, separation cmyk\* (CMYK)

TUB material: code=rh4ta

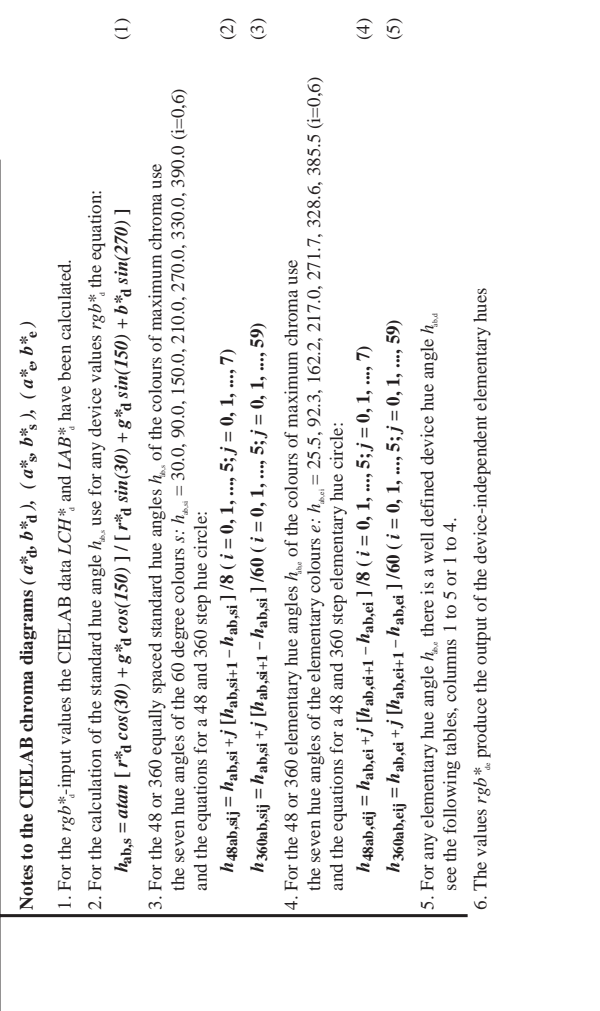
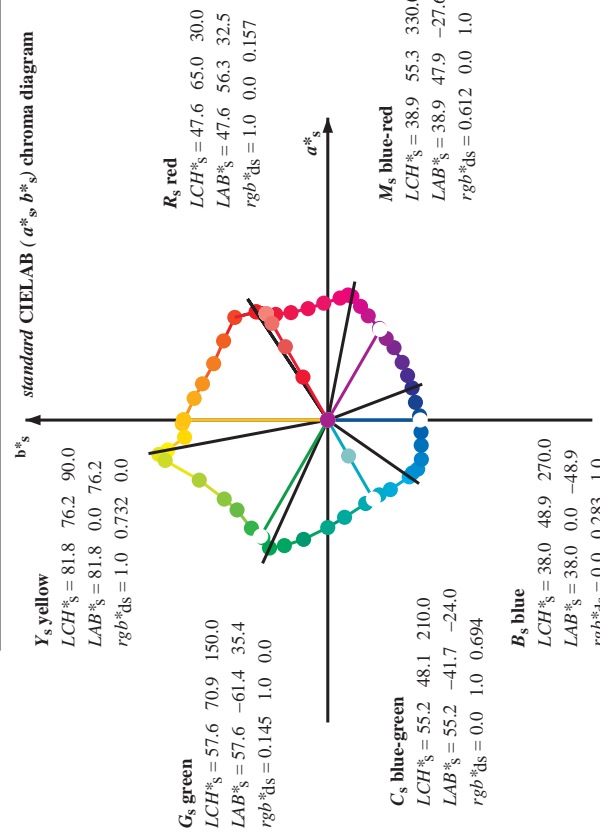
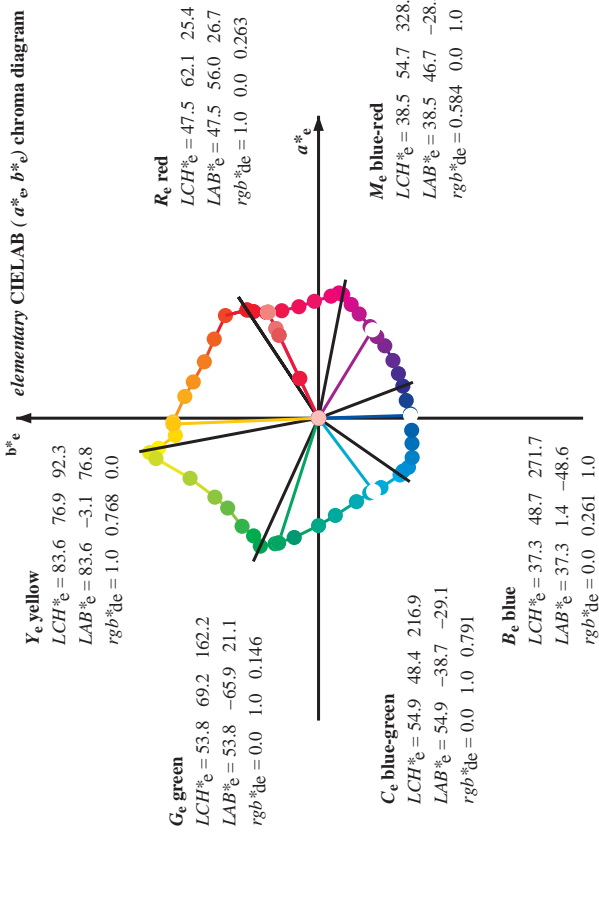
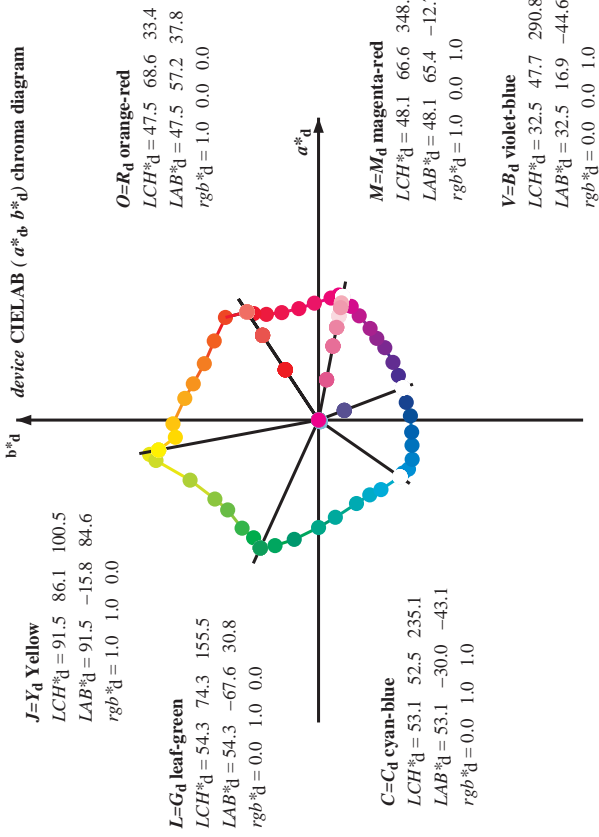
1-103530-L0 PE990-72

TUB-test chart PE99; hue code:  $H^*_d=R00Y_d$   
 Test chart according to DIN 33872, 3D=1, de=0,  $cmyk^*$

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

1-103530-F0

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk\*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM;  $h_{abs} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
 Six hue angles of the device colours RYGBM;  $h_{abs} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six hue angles of the elementary colours RYGBM;  $h_{abs} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$



LAB\*<sub>at0</sub>, YN=0%, XY<sub>Znw</sub>=3.9, 4.1, 84.7, 89.6, 93.9, LAB\*<sub>nw</sub>=23.9, 0.0, 0.0, 95.8, 0.0, 0.0  
 PE990-72  
 I-103630-L0  
 TUB-test chart PE99; hue code: H\*\_d=R00Y\_d  
 48 step hue circles;  $rgb-LabCh$ \*tables

Output: Laser printer output; separation cmyk\*, D65, page 7/36  
 input:  $rgb/cmyk \rightarrow rgbdd$   
 output: 3D-linearization to  $cmyk^*dd$





http://130.149.60.45/~farbmetrik/PE99/PE99L0FA.TXT /.PS; 3D-linearization  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 9/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk\*; D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM(d): h<sub>abs,d</sub> = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;  
Six hue angles of the device colours RYGBM(d): h<sub>ab,d</sub> = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9; Six hue angles of the elementary colours RYGBM(c): h<sub>ab,c</sub> = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

h <sub>ab,d</sub>	h <sub>ab,s</sub>	h <sub>ab,e</sub>	rgb* dd64M	rgb* ds	rgb* de	LAB* dx64M (x=LabCh)	LAB* dex30M	LAB* dex36M	rgb* dd64M	rgb* ds	rgb* de
33.4	30.0	25.4	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4	33.4
42.1	37.5	33.8	1.0	0.125	0.0	51.9	54.3	49.2	73.2	42.1	42.1
52.8	45.0	42.1	1.0	0.25	0.0	58.2	41.8	55.1	69.2	52.8	52.8
63.7	52.5	50.5	1.0	0.375	0.0	64.6	29.8	60.4	67.3	63.7	63.7
73.8	60.0	58.8	1.0	0.5	0.0	70.5	19.2	66.2	69.0	73.8	73.8
80.7	67.5	67.2	1.0	0.625	0.0	74.9	11.4	70.7	71.6	80.7	80.7
91.5	75.0	75.6	1.0	0.75	0.0	82.9	-2.0	76.9	77.0	91.5	91.5
96.8	82.5	83.9	1.0	0.875	0.0	87.6	-9.0	75.7	76.3	96.8	96.8
100.5	90.0	92.3	1.0	1.0	0.0	91.5	-15.8	84.6	86.1	100.5	100.5
101.4	97.5	101.0	1.0	0.875	1.0	92.8	-18.1	89.4	91.2	101.4	101.4
103.9	105.0	109.7	1.0	0.75	1.0	90.1	-21.3	86.0	88.6	103.9	103.9
115.0	112.5	118.5	1.0	0.625	1.0	87.9	-31.7	67.9	75.0	115.0	115.0
127.3	120.0	127.2	0.5	1.0	0.0	70.9	-41.7	54.8	68.9	127.3	127.3
134.7	127.5	136.0	0.375	1.0	0.0	66.5	-47.5	48.0	67.6	134.7	134.7
144.7	135.0	144.7	0.25	1.0	0.0	60.6	-57.2	40.4	70.1	144.7	144.7
151.0	142.5	153.4	0.125	1.0	0.0	57.0	-62.2	34.4	71.1	151.0	151.0
155.5	150.0	162.2	0.0	1.0	0.0	54.3	-67.6	30.8	74.3	155.5	155.5
160.8	157.5	169.0	0.0	1.0	0.125	53.8	-66.4	23.0	70.2	160.8	160.8
168.5	165.0	175.9	0.0	1.0	0.25	53.7	-63.1	12.8	64.4	168.5	168.5
179.9	172.5	182.7	0.0	1.0	0.375	54.7	-56.8	0.0	56.8	179.9	179.9
189.8	180.0	189.6	0.0	1.0	0.5	55.0	-51.4	-8.9	52.2	189.8	189.8
204.4	187.5	196.4	0.0	1.0	0.625	55.3	-44.1	-20.0	48.5	204.4	204.4
214.4	195.0	203.2	0.0	1.0	0.75	55.2	-39.5	-27.1	47.9	214.4	214.4
221.9	202.5	210.1	0.0	1.0	0.875	54.4	-36.7	-33.0	49.4	221.9	221.9
235.1	210.0	216.9	0.0	1.0	1.0	53.1	-30.0	-43.1	52.5	235.1	235.1
237.9	217.5	223.8	0.0	0.875	1.0	53.1	-27.9	-44.7	52.7	237.9	237.9
241.3	225.0	230.6	0.0	0.75	1.0	52.9	-25.9	-47.5	54.1	241.3	241.3
247.2	232.5	237.5	0.0	0.625	1.0	50.5	-20.8	-49.5	53.7	247.2	247.2
254.9	240.0	244.3	0.0	0.5	1.0	46.1	-13.3	-49.4	51.1	254.9	254.9
262.6	247.5	251.2	0.0	0.375	1.0	41.4	-6.3	-49.2	49.6	262.6	262.6
272.6	255.0	258.0	0.0	0.25	1.0	36.8	2.2	-48.5	48.6	272.6	272.6
281.4	262.5	264.8	0.0	0.125	1.0	35.0	9.4	-46.3	47.3	281.4	281.4
290.8	270.0	271.7	0.0	0.0	1.0	32.5	16.9	-44.6	47.7	290.8	290.8
299.2	277.5	278.8	0.125	0.0	1.0	31.6	23.6	-42.2	48.4	299.2	299.2
307.8	285.0	285.9	0.25	0.0	1.0	31.0	30.5	-39.3	49.8	307.8	307.8
317.5	292.5	293.0	0.375	0.0	1.0	34.2	38.2	-35.0	51.8	317.5	317.5
324.4	300.0	300.1	0.5	0.0	1.0	37.2	43.1	-30.8	53.0	324.4	324.4
330.6	307.5	307.2	0.625	0.0	1.0	39.1	48.4	-27.2	55.6	330.6	330.6
338.7	315.0	314.3	0.75	0.0	1.0	41.8	55.1	-21.4	59.1	338.7	338.7
343.9	322.5	321.4	0.875	0.0	1.0	45.6	60.1	-17.3	62.6	343.9	343.9
348.9	330.0	328.6	1.0	0.0	1.0	48.1	65.4	-12.7	66.6	348.9	348.9
350.7	337.5	335.7	1.0	0.0	0.875	49.5	66.1	-10.7	67.0	350.7	350.7
354.2	345.0	342.8	1.0	0.0	0.75	49.3	64.5	-6.5	64.8	354.2	354.2
361.9	352.5	349.9	1.0	0.0	0.625	48.0	61.8	2.1	61.8	361.9	361.9
370.0	360.0	357.0	1.0	0.0	0.5	47.8	58.9	10.4	59.9	370.0	370.0
378.9	367.5	364.1	1.0	0.0	0.375	47.4	56.8	19.5	60.0	378.9	378.9
386.2	375.0	371.2	1.0	0.0	0.25	47.5	55.9	27.5	62.3	386.2	386.2
391.3	382.5	378.3	1.0	0.0	0.125	47.6	56.3	34.2	65.9	391.3	391.3
393.4	390.0	385.4	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393.4	393.4

I-103830-L0 PE990-72 LAB\*lab0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB\*mnw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0  
Output: Laser printer output; separation cmyk\*; D65, page 9/36

TUB-test chart PE99; hue code: H\*\_d=R00Y\_d  
48 step hue circles; rgb-LabCh\*tables

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



http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT / PS; 3D-linearization  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 11/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk\*; D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM;  $h_{abs,d} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
Six hue angles of the device colours RYGBM;  $h_{abs,d} = 33.5, 100.6, 155.2, 290.8, 348.9$ ; Six hue angles of the elementary colours RYGBM;  $h_{abs,d} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{abs}$	$h_{ab,s}$	$h_{abs,s}$	$L^*_{AB^*}$	$a^*_{AB^*}$	$b^*_{AB^*}$	$x_{361M}$	$y_{361M}$	$z_{361M}$	$R_d$	$rgb^*_{ds361MI}$	$LAB^*_{dsx361MI}(x=LabCh)$	$rgb^*_{dd361MI}$	$LAB^*_{dex361MI}(x=LabCh)$	$rgb^*_{dd361MI}$
-268	75	1.0	0.75	0.0	82.9	-2.0	76.9	77.0	-268	$R_d$	$rgb^*_{ds361MI}$	$LAB^*_{dsx361MI}(x=LabCh)$	$rgb^*_{dd361MI}$	$LAB^*_{dex361MI}(x=LabCh)$	$rgb^*_{dd361MI}$
92	76	1.0	0.766	0.0	83.5	-2.9	76.8	76.9	92	1.0	0.521	0.0	1.0	0.532	0.0
92	77	1.0	0.783	0.0	84.2	-3.9	76.7	76.8	92	1.0	0.539	0.0	1.0	0.552	0.0
93	78	1.0	0.8	0.0	84.8	-4.8	76.5	76.7	93	1.0	0.557	0.0	1.0	0.572	0.0
94	79	1.0	0.816	0.0	85.4	-5.8	76.4	76.6	94	1.0	0.575	0.0	1.0	0.592	0.0
95	80	1.0	0.833	0.0	86.0	-6.7	76.2	76.5	95	1.0	0.611	0.0	1.0	0.629	0.0
95	81	1.0	0.85	0.0	86.6	-7.6	76.0	76.4	95	1.0	0.627	0.0	1.0	0.642	0.0
96	82	1.0	0.866	0.0	87.3	-8.6	75.8	76.3	96	1.0	0.639	0.0	1.0	0.655	0.0
97	83	1.0	0.883	0.0	87.8	-9.4	76.3	76.9	97	1.0	0.651	0.0	1.0	0.668	0.0
97	84	1.0	0.9	0.0	88.4	-10.3	77.6	78.2	97	1.0	0.662	0.0	1.0	0.681	0.0
98	85	1.0	0.916	0.0	88.9	-11.2	77.8	79.6	98	1.0	0.674	0.0	1.0	0.694	0.0
98	86	1.0	0.933	0.0	89.4	-12.0	80.0	80.9	98	1.0	0.686	0.0	1.0	0.707	0.0
99	87	1.0	0.95	0.0	89.9	-12.9	81.1	82.2	99	1.0	0.697	0.0	1.0	0.72	0.0
99	88	1.0	0.966	0.0	90.5	-13.9	82.3	83.5	99	1.0	0.709	0.0	1.0	0.733	0.0
100	89	1.0	0.983	0.0	91.0	-14.8	83.5	84.8	100	1.0	0.721	0.0	1.0	0.746	0.0
100	90	1.0	1.0	0.0	91.5	-15.8	84.6	86.1	100	$Y_d$	$Y_d$	$Y_d$	$Y_e$	$Y_e$	$Y_e$
100	91	0.983	1.0	0.0	91.7	-16.1	85.3	86.8	100	1.0	0.732	0.0	1.0	0.759	0.0
100	92	0.966	1.0	0.0	91.9	-16.4	85.9	87.5	100	1.0	0.744	0.0	1.0	0.796	0.0
100	93	0.95	1.0	0.0	92.0	-16.7	86.5	88.2	100	1.0	0.761	0.0	1.0	0.823	0.0
101	94	0.933	1.0	0.0	92.2	-17.0	87.2	88.8	101	1.0	0.785	0.0	1.0	0.851	0.0
101	95	0.916	1.0	0.0	92.4	-17.3	87.8	89.5	101	1.0	0.808	0.0	1.0	0.879	0.0
101	96	0.9	1.0	0.0	92.5	-17.6	88.4	90.2	101	1.0	0.832	0.0	1.0	0.918	0.0
101	97	0.883	1.0	0.0	92.7	-18.0	89.1	90.9	101	1.0	0.855	0.0	1.0	0.957	0.0
101	98	0.866	1.0	0.0	92.6	-18.3	89.2	91.0	101	1.0	0.88	0.0	1.0	0.996	0.0
101	99	0.85	1.0	0.0	92.2	-18.8	88.7	90.7	101	1.0	0.914	0.0	1.0	1.035	0.0
102	100	0.833	1.0	0.0	91.9	-19.2	88.3	90.3	102	1.0	0.947	0.0	1.0	1.074	0.0
102	101	0.816	1.0	0.0	91.5	-19.6	87.8	90.0	102	1.0	0.98	0.0	1.0	1.113	0.0
102	102	0.8	1.0	0.0	91.1	-20.1	87.4	89.7	102	1.0	0.943	0.0	1.0	1.152	0.0
103	103	0.783	1.0	0.0	90.8	-20.5	86.9	89.3	103	1.0	0.849	0.0	1.0	1.191	0.0
103	104	0.766	1.0	0.0	90.4	-20.9	86.5	89.0	103	1.0	0.798	0.0	1.0	1.23	0.0
103	105	0.75	1.0	0.0	90.1	-21.3	86.0	88.6	103	1.0	0.749	0.0	1.0	1.27	0.0
105	106	0.733	1.0	0.0	89.7	-21.8	85.7	88.6	105	1.0	0.738	0.0	1.0	1.31	0.0
106	107	0.716	1.0	0.0	89.3	-22.3	85.4	88.6	106	1.0	0.727	0.0	1.0	1.35	0.0
108	108	0.7	1.0	0.0	88.6	-22.8	85.1	88.6	108	1.0	0.716	0.0	1.0	1.39	0.0
109	109	0.683	1.0	0.0	88.4	-23.1	85.3	88.5	109	1.0	0.704	0.0	1.0	1.43	0.0
111	110	0.666	1.0	0.0	88.3	-23.4	85.1	88.5	111	1.0	0.693	0.0	1.0	1.47	0.0
112	111	0.65	1.0	0.0	88.9	-23.7	85.1	88.5	112	1.0	0.682	0.0	1.0	1.51	0.0
114	112	0.633	1.0	0.0	89.3	-24.1	85.1	88.5	114	1.0	0.671	0.0	1.0	1.55	0.0
115	113	0.616	1.0	0.0	89.5	-24.4	85.1	88.5	115	1.0	0.659	0.0	1.0	1.59	0.0
117	114	0.6	1.0	0.0	89.9	-24.7	85.1	88.5	117	1.0	0.648	0.0	1.0	1.63	0.0
119	115	0.583	1.0	0.0	90.3	-25.0	85.1	88.5	119	1.0	0.637	0.0	1.0	1.67	0.0
120	116	0.566	1.0	0.0	90.7	-25.3	85.1	88.5	120	1.0	0.625	0.0	1.0	1.71	0.0
122	117	0.55	1.0	0.0	91.1	-25.6	85.1	88.5	122	1.0	0.615	0.0	1.0	1.75	0.0
124	118	0.533	1.0	0.0	91.5	-25.9	85.1	88.5	124	1.0	0.605	0.0	1.0	1.79	0.0
125	119	0.516	1.0	0.0	91.9	-26.2	85.1	88.5	125	1.0	0.595	0.0	1.0	1.83	0.0
127	120	0.5	1.0	0.0	92.3	-26.5	85.1	88.5	127	1.0	0.585	0.0	1.0	1.87	0.0

I=1031030-L0 PE990-72 LAB\*lab, YN=0%, XYZnw=3.9, 4.1, 84.7, 89.6, 93.9, LAB\*mnw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

input: rgb/cmyk -> rgbd  
output: 3D-linearization to cmyk\*  
Output: Laser printer output; separation cmyk\*; D65, page 11/63







Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk<sup>6\*</sup>, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM<sub>d</sub>;  $h_{ab,d} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
Six hue angles of the device colours RYGBM<sub>d</sub>;  $h_{ab,d} = 25.5, 93.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^{*}_{ds}$	$rgb^{*}_{ds361MI}$ (x=LabCh)	$rgb^{*}_{ds361MI}$	$LAB^{*}_{ds361MI}$ (x=LabCh)	$rgb^{*}_{dd361MI}$	$rgb^{*}_{dd361MI}$	$LAB^{*}_{dex361MI}$ (x=LabCh)	$rgb^{*}_{dd361MI}$	$rgb^{*}_{dd361MI}$	$rgb^{*}_{ds}$	$rgb^{*}_{ds}$
272	255	258	0.0	0.25	1.0	46.1	-13.1	49.3	51.2	255	0.0	0.25	1.0
273	256	258	0.0	0.233	1.0	45.5	-12.2	49.4	51.0	256	0.0	0.233	1.0
274	257	259	0.0	0.216	1.0	44.9	-11.3	49.4	50.8	257	0.0	0.217	1.0
276	258	260	0.0	0.2	1.0	44.3	-10.4	49.4	50.6	258	0.0	0.2	1.0
277	259	261	0.0	0.183	1.0	43.7	-9.5	49.4	50.4	259	0.0	0.183	1.0
278	260	262	0.0	0.166	1.0	43.0	-8.6	49.3	50.2	260	0.0	0.167	1.0
279	261	263	0.0	0.15	1.0	42.4	-7.7	49.3	50.0	261	0.0	0.15	1.0
280	262	264	0.0	0.133	1.0	41.8	-6.8	49.2	49.8	262	0.0	0.133	1.0
282	263	265	0.0	0.116	1.0	41.3	-6.0	49.2	49.7	263	0.0	0.117	1.0
283	264	266	0.0	0.1	1.0	40.8	-5.1	49.2	49.5	264	0.0	0.1	1.0
284	265	267	0.0	0.083	1.0	40.4	-4.2	49.2	49.4	265	0.0	0.083	1.0
285	266	268	0.0	0.066	1.0	39.9	-3.3	49.1	49.3	266	0.0	0.067	1.0
287	267	269	0.0	0.049	1.0	39.5	-2.5	49.1	49.2	267	0.0	0.05	1.0
288	268	269	0.0	0.033	1.0	39.0	-1.6	49.0	49.1	268	0.0	0.033	1.0
289	269	270	0.0	0.016	1.0	38.5	-0.8	48.8	48.9	269	0.0	0.017	1.0
290	270	271	0.0	0.0	1.0	38.1	0.0	48.8	48.8	270	0.0	0.017	1.0
291	271	272	0.0016	0.0	1.0	37.6	0.9	48.7	48.8	271	0.0	0.017	1.0
293	272	273	0.033	0.0	1.0	37.2	1.7	48.6	48.7	272	0.033	0.0	1.0
294	273	274	0.05	0.0	1.0	36.8	2.5	48.4	48.6	273	0.05	0.0	1.0
295	274	275	0.066	0.0	1.0	36.6	3.4	48.2	48.4	274	0.067	0.0	1.0
296	275	276	0.083	0.0	1.0	36.4	4.2	48.0	48.3	275	0.083	0.0	1.0
297	276	277	0.1	0.0	1.0	36.2	5.0	47.8	48.1	276	0.1	0.0	1.0
298	277	278	0.116	0.0	1.0	36.0	5.8	47.5	48.0	277	0.117	0.0	1.0
299	278	279	0.133	0.0	1.0	35.8	6.7	47.3	47.8	278	0.133	0.0	1.0
300	279	280	0.15	0.0	1.0	35.6	7.5	47.0	47.7	279	0.15	0.0	1.0
302	280	281	0.166	0.0	1.0	35.4	8.3	46.7	47.5	280	0.167	0.0	1.0
303	281	282	0.183	0.0	1.0	35.2	9.0	46.4	47.4	281	0.183	0.0	1.0
304	282	283	0.2	0.0	1.0	34.9	9.8	46.2	47.4	282	0.2	0.0	1.0
305	283	284	0.216	0.0	1.0	34.7	10.7	46.1	47.4	283	0.217	0.0	1.0
306	284	285	0.233	0.0	1.0	34.4	11.5	45.9	47.4	284	0.233	0.0	1.0
307	285	285	0.25	0.0	1.0	34.1	12.3	45.8	47.5	285	0.25	0.0	1.0
309	286	286	0.266	0.0	1.0	33.9	13.1	45.6	47.5	286	0.267	0.0	1.0
310	287	287	0.283	0.0	1.0	33.6	13.9	45.4	47.6	287	0.283	0.0	1.0
311	288	288	0.3	0.0	1.0	33.3	14.7	45.2	47.6	288	0.3	0.0	1.0
312	289	289	0.316	0.0	1.0	33.1	15.5	44.9	47.6	289	0.317	0.0	1.0
314	290	290	0.333	0.0	1.0	32.8	16.3	44.7	47.7	290	0.333	0.0	1.0
315	291	291	0.35	0.0	1.0	32.5	17.1	44.5	47.7	291	0.35	0.0	1.0
316	292	292	0.366	0.0	1.0	32.4	17.9	44.2	47.8	292	0.367	0.0	1.0
317	293	293	0.383	0.0	1.0	32.3	18.7	44.0	47.9	293	0.383	0.0	1.0
318	294	294	0.4	0.0	1.0	32.2	19.5	43.7	48.0	294	0.4	0.0	1.0
319	295	295	0.416	0.0	1.0	32.1	20.3	43.5	48.1	295	0.417	0.0	1.0
320	296	296	0.433	0.0	1.0	32.0	21.1	43.2	48.1	296	0.433	0.0	1.0
321	297	297	0.45	0.0	1.0	31.9	21.9	42.9	48.2	297	0.45	0.0	1.0
322	298	298	0.466	0.0	1.0	31.7	22.7	42.5	48.3	298	0.467	0.0	1.0
323	299	299	0.483	0.0	1.0	31.6	23.5	42.2	48.4	299	0.483	0.0	1.0
324	300	300	0.5	0.0	1.0	31.6	24.3	41.9	48.5	300	0.5	0.0	1.0

LAB\*1a0, YN=0%, XYZnw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB\*mw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

TUB-test chart PE99; hue code: H\*\_d=R00Y\_d  
48 step hue circles; rgb-LabCh\*tables

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

Output: Laser printer output; separation cmyk<sup>6\*</sup>, D65, page 15/65







http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT /.PS; 3D-linearization  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 18/33

ref	HC*Fid	rgb_Fid	icr_Fid	hsa_Fid	rgb*Fid	LabC*Fid	cmyk*_sep,Fid	hsa*Fid	rgb*Fid	LabC*Fid	delta
0/648	R00Y_100_100ad	1.0	1.0	0.5	1.0	0.0	0.0	390	1.0	0.0	0.0
1/657	R13Y_100_100ad	0.125	1.0	0.5	1.0	0.116	0.0	37	0.0	0.873	0.974
2/666	R25Y_100_100ad	0.25	1.0	0.5	1.0	0.233	0.0	36	0.0	0.767	1.0
3/675	R38Y_100_100ad	0.375	1.0	0.5	1.0	0.366	0.0	52	0.0	0.652	0.999
4/684	R50Y_100_100ad	0.5	1.0	0.5	1.0	0.5	0.0	68	0.0	0.5	1.0
5/693	R63Y_100_100ad	0.625	1.0	0.5	1.0	0.633	0.0	68	0.0	0.367	1.0
6/702	R75Y_100_100ad	0.75	1.0	0.5	1.0	0.766	0.0	73	0.0	0.233	0.999
7/711	R88Y_100_100ad	1.0	1.0	0.5	1.0	0.883	0.0	87	0.0	0.117	0.999
8/720	Y00G_100_100ad	1.0	1.0	0.5	1.0	0.0	0.0	90	1.0	1.0	1.0
9/639	Y13G_100_100ad	0.875	1.0	0.5	1.0	0.883	0.0	90	0.883	1.0	0.0
10/558	Y25G_100_100ad	0.75	1.0	0.5	1.0	0.766	0.0	102	0.766	1.0	0.0
11/477	Y38G_100_100ad	0.625	1.0	0.5	1.0	0.633	0.0	111	0.633	1.0	0.0
12/396	Y50G_100_100ad	0.5	1.0	0.5	1.0	0.5	0.0	111	0.5	1.0	0.0
13/315	Y63G_100_100ad	0.375	1.0	0.5	1.0	0.366	0.0	128	0.366	1.0	0.0
14/234	Y75G_100_100ad	0.25	1.0	0.5	1.0	0.233	0.0	137	0.233	1.0	0.0
15/153	Y88G_100_100ad	0.125	1.0	0.5	1.0	0.116	0.0	143	0.116	1.0	0.0
16/72	G00C_100_100ad	0.0	1.0	0.5	1.0	0.0	0.0	149	0.0	0.0	0.0
17/73	G13C_100_100ad	0.125	1.0	0.5	1.0	0.116	0.0	156	0.0	0.884	0.0
18/74	G25C_100_100ad	0.25	1.0	0.5	1.0	0.233	0.0	162	0.0	0.713	0.125
19/75	G38C_100_100ad	0.375	1.0	0.5	1.0	0.366	0.0	171	0.0	0.632	0.0
20/76	G50C_100_100ad	0.5	1.0	0.5	1.0	0.5	0.0	180	0.0	0.5	0.0
21/77	G63C_100_100ad	0.625	1.0	0.5	1.0	0.633	0.0	188	0.0	0.364	0.0
22/78	G75C_100_100ad	0.75	1.0	0.5	1.0	0.766	0.0	197	0.0	0.239	0.0
23/79	G88C_100_100ad	0.875	1.0	0.5	1.0	0.883	0.0	203	0.0	0.123	0.001
24/80	C00B_100_100ad	0.0	1.0	0.5	1.0	0.0	0.0	210	0.0	1.0	0.0
25/81	C13B_100_100ad	0.0	1.0	0.5	1.0	0.883	0.0	216	0.0	0.883	1.0
26/82	C25B_100_100ad	0.0	1.0	0.5	1.0	0.766	0.0	222	0.0	0.766	1.0
27/83	C38B_100_100ad	0.0	1.0	0.5	1.0	0.633	0.0	231	0.0	0.633	1.0
28/84	C50B_100_100ad	0.0	1.0	0.5	1.0	0.5	0.0	240	0.0	0.5	1.0
29/85	C63B_100_100ad	0.0	1.0	0.5	1.0	0.366	0.0	248	0.0	0.366	1.0
30/26	C75B_100_100ad	0.0	1.0	0.5	1.0	0.233	0.0	257	0.0	0.233	1.0
31/17	C88B_100_100ad	0.0	1.0	0.5	1.0	0.116	0.0	263	0.0	0.116	1.0
32/8	B00M_100_100ad	0.0	1.0	0.5	1.0	0.0	1.0	270	0.0	0.0	0.0
33/89	B13M_100_100ad	0.125	1.0	0.5	1.0	0.116	0.0	276	0.0	0.883	1.0
34/170	B25M_100_100ad	0.25	1.0	0.5	1.0	0.233	0.0	282	0.0	0.766	1.0
35/251	B38M_100_100ad	0.375	1.0	0.5	1.0	0.366	0.0	291	0.0	0.633	1.0
36/332	B50M_100_100ad	0.5	1.0	0.5	1.0	0.5	0.0	300	0.0	0.5	1.0
37/413	B63M_100_100ad	0.625	1.0	0.5	1.0	0.633	0.0	308	0.0	0.363	0.0
38/494	B75M_100_100ad	0.75	1.0	0.5	1.0	0.766	0.0	317	0.0	0.233	0.0
39/575	B88M_100_100ad	0.875	1.0	0.5	1.0	0.883	0.0	323	0.0	0.116	0.0
40/656	M00R_100_100ad	1.0	0.0	1.0	1.0	0.0	0.0	330	1.0	1.0	0.0
41/655	M13R_100_100ad	1.0	0.0	1.0	1.0	0.883	0.0	336	1.0	0.883	0.0
42/654	M25R_100_100ad	1.0	0.0	1.0	1.0	0.766	0.0	342	1.0	0.766	0.0
43/653	M38R_100_100ad	1.0	0.0	1.0	1.0	0.633	0.0	351	1.0	0.633	0.0
44/652	M50R_100_100ad	1.0	0.0	1.0	1.0	0.5	0.0	360	1.0	0.5	0.0
45/651	M63R_100_100ad	1.0	0.0	1.0	1.0	0.366	0.0	368	1.0	0.366	0.0
46/650	M75R_100_100ad	1.0	0.0	1.0	1.0	0.233	0.0	377	1.0	0.233	0.0
47/649	M88R_100_100ad	1.0	0.0	1.0	1.0	0.116	0.0	383	1.0	0.116	0.0
48/648	R00Y_100_100ad	1.0	0.0	1.0	1.0	0.0	0.0	389	1.0	0.0	0.0
49/0	NV_000ad	0.0	0.0	0.0	0.0	0.0	0.0	390	1.0	0.0	0.0
50/91	NV_013ad	0.125	0.0	0.0	0.0	0.125	0.0	360	1.0	0.883	0.0
51/182	NV_025ad	0.25	0.0	0.0	0.0	0.25	0.0	360	1.0	0.766	0.0
52/273	NV_038ad	0.375	0.0	0.0	0.0	0.375	0.0	360	1.0	0.633	0.0
53/564	NV_050ad	0.5	0.0	0.0	0.0	0.5	0.0	360	1.0	0.5	0.0
54/455	NV_063ad	0.625	0.0	0.0	0.0	0.625	0.0	360	1.0	0.366	0.0
55/546	NV_075ad	0.75	0.0	0.0	0.0	0.75	0.0	360	1.0	0.233	0.0
56/637	NV_088ad	0.875	0.0	0.0	0.0	0.875	0.0	360	1.0	0.116	0.0
57/728	NV_100ad	1.0	0.0	0.0	0.0	1.0	0.0	360	1.0	0.0	0.0

Mean color difference of this page:

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





Table with 16 columns: n, HHC\*Fid, rpb\_Fid, icr\_Fid, hsa\_Fid, rpb\*Fid, LabCH\*Fid, cmyk\*\_sep\_Fid, hsa\*Fid, rpb\*\*Fid, LabCH\*\*Fid, delta. Rows 81-161.

Mean color difference of this page:

input: rgb/cmyk -> rgbd output: 3D-linearization to cmyk\*\*d

TUB-test chart PE99; hue code: H\*d=R00Yd colors and differences, AE\*\*

Table with columns: n, HHC\*Fid, rpb\*Fid, icr\*Fid, hsa\*Fid, rpb\*Fid, LabCH\*Fid, cmyk\*sep, Fud, rpb\*Fid, hsa\*Fid, rpb\*Fid, LabCH\*Fid, delta. The table contains 242 rows of color calibration data for various color patches.

input: rgb/cmyk -> rbgdd output: 3D-linearization to cmyk\*dd

TUB-test chart PE99; hue code: H\*d=R00Yd colors and differences, ΔE\*

http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT /.PS; 3D-linearization  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 23/33

Table with 33 columns: n, HHC\*Fid, rgb\_Fid, icr\_Fid, hsa\_Fid, rgp\_Fid, LabCh\*Fid, LabCh\*Sep.Fid, cmyk\*\_sep.Fid, hsa\_Mid, rgp\_Mid, LabCh\*Mid, LabCh\*Mid, delta. Each row represents a color patch with its corresponding data values.

Input: rgb/cmyk -> rgbd  
Output: 3D-linearization to cmyk\*dd

TUB-test chart PE99; hue code: H\*d=R00Yd  
colors and differences, ΔE\*

Table with columns: n, HHC\*Fid, rpb\*Fid, icr\*Fid, hsa\*Fid, rpb\*Fid, LabCh\*Fid, cmyk\*sep,Fid, hsa\*Fid, rpb\*Fid, LabCh\*Fid, delta. It contains 404 rows of color calibration data for various CMYK patches.

TUB-test chart PE99; hue code: H\*d=R00Yd colors and differences, ΔE\*

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

delta

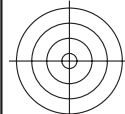
Mean color difference of this page:

I-1032330-F0

PE990-7N, Tue, 24 Jul '93







http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT /.PS; 3D-linearization  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 26/33

Table with 18 columns: n, HHC\*Fid, rpb\_Fid, icr\_Fid, rgs\_Fid, hsa\_Fid, rpb\*Fid, LabCH\*Fid, LabCH\*Mid, LabCH\*Mid, rpb\*Mid, hsa\_Mid, rpb\*Fid, LabCH\*Fid, LabCH\*Mid, LabCH\*Mid, rpb\*Mid, hsa\_Mid. Each row represents a color calibration target patch.

Mean color difference of this page: delta

input: rgb/cmyk -> rbgdd  
output: 3D-linearization to cmyk\*dd

TUB-test chart PE99; hue code: H\*d=R00Yd  
colors and differences, AE\*<sup>\*</sup>



http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT /.PS; 3D-linearization F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 28/33

see similar files: http://130.149.60.45/~farbmetrik/PE99/PE99.HTM technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

Table with columns: n, H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*), and H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*). Rows include color names like R001, R002, ..., NW\_100ad.

Table with columns: I (Intensity), Lab (L\*, a\*, b\*), H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*), H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*). Rows correspond to color names from the previous table.

Table with columns: I (Intensity), Lab (L\*, a\*, b\*), H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*), H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*). Rows correspond to color names from the previous table.

Table with columns: I (Intensity), Lab (L\*, a\*, b\*), H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*), H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*). Rows correspond to color names from the previous table.

Table with columns: I (Intensity), Lab (L\*, a\*, b\*), H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*), H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*). Rows correspond to color names from the previous table.

Table with columns: I (Intensity), Lab (L\*, a\*, b\*), H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*), H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*). Rows correspond to color names from the previous table.

Table with columns: I (Intensity), Lab (L\*, a\*, b\*), H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*), H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*). Rows correspond to color names from the previous table.

Table with columns: I (Intensity), Lab (L\*, a\*, b\*), H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*), H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*). Rows correspond to color names from the previous table.

Table with columns: I (Intensity), Lab (L\*, a\*, b\*), H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*), H\* (Hue), F (Saturation), R (Red), G (Green), B (Blue), I (Intensity), Lab (L\*, a\*, b\*). Rows correspond to color names from the previous table.

TUB-test chart PE99; hue code: H\*\_d=R00Y\_d colors and differences, ΔE\*<sup>ab</sup>

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

Mean color difference of this page: delta

I-1032730-F0

PE99-7N, Page 28/33-F





http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT /.PS; 3D-linearization  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 31/33

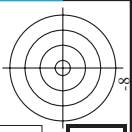
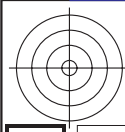
Table with 30 columns (n, H1C\*F01, rpb\*F01, icr\*F01, lra\*F01, lra\*F02, LabCH\*F01, LabCH\*F02, LabCH\*F03, LabCH\*F04, cmyk\*sep, cmyk\*F01, rpb\*F01, rpb\*F02, rpb\*F03, rpb\*F04, rpb\*F05, rpb\*F06, rpb\*F07, rpb\*F08, rpb\*F09, rpb\*F10, rpb\*F11, rpb\*F12, rpb\*F13, rpb\*F14, rpb\*F15, rpb\*F16, rpb\*F17, rpb\*F18, rpb\*F19, rpb\*F20, delta) and 971 rows of data.

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

TUB-test chart PE99; hue code: H\*d=R00Yd  
colors and differences, ΔE\*







http://130.149.60.45/~farbmetrik/PE99/PE99L0FA.TXT /.PS; 3D-linearization  
 F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 33/33

n	HC*Fad	rgb*Fad	ict*Fad	hsa*Fad	rgb*Fad	LabC*Fad	hsa*Fad	LabC*Fad	cmyk*sep*Fad	delta	rgb*Yad	LabC*Yad	hsa*Yad	LabC*Yad
1053	NW_0860ad	0.866	0.866	0.866	0.866	0.866	0.866	0.866	0.019	0.164	0.02	0.019	0.164	
1054	NW_0920ad	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.005	0.103	0.005	0.005	0.103	
1055	NW_1000ad	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	
1056	NW_0060ad	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.0	0.0	0.0	0.0	0.0	
1057	NW_0130ad	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.005	0.054	0.005	0.005	0.054	
1058	NW_0200ad	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.016	0.164	0.016	0.016	0.164	
1059	NW_0260ad	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.034	0.338	0.034	0.034	0.338	
1060	NW_0330ad	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.053	0.533	0.053	0.053	0.533	
1061	NW_0400ad	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.078	0.778	0.078	0.078	0.778	
1062	NW_0460ad	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.109	1.099	0.109	0.109	1.099	
1063	NW_0530ad	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.164	1.644	0.164	0.164	1.644	
1064	NW_0570ad	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.223	2.233	0.223	0.223	2.233	
1065	NW_0660ad	0.666	0.666	0.666	0.666	0.666	0.666	0.666	0.338	3.383	0.338	0.338	3.383	
1066	NW_0730ad	0.734	0.734	0.734	0.734	0.734	0.734	0.734	0.482	4.827	0.482	0.482	4.827	
1067	NW_0800ad	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.717	7.177	0.717	0.717	7.177	
1068	NW_0860ad	0.866	0.866	0.866	0.866	0.866	0.866	0.866	1.0	10.0	1.0	1.0	10.0	
1069	NW_0920ad	0.933	0.933	0.933	0.933	0.933	0.933	0.933	0.005	0.054	0.005	0.005	0.054	
1070	NW_1000ad	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	
1071	NW_0060ad	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.0	0.0	0.0	0.0	0.0	
1072	NW_0130ad	0.133	0.133	0.133	0.133	0.133	0.133	0.133	0.005	0.054	0.005	0.005	0.054	
1073	NW_0200ad	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.016	0.164	0.016	0.016	0.164	
1074	NW_0260ad	0.266	0.266	0.266	0.266	0.266	0.266	0.266	0.034	0.338	0.034	0.034	0.338	
1075	NW_0330ad	0.333	0.333	0.333	0.333	0.333	0.333	0.333	0.053	0.533	0.053	0.053	0.533	
1076	NW_0400ad	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.078	0.778	0.078	0.078	0.778	
1077	NW_0460ad	0.466	0.466	0.466	0.466	0.466	0.466	0.466	0.109	1.099	0.109	0.109	1.099	
1078	NW_0530ad	0.533	0.533	0.533	0.533	0.533	0.533	0.533	0.164	1.644	0.164	0.164	1.644	
1079	NW_0570ad	0.573	0.573	0.573	0.573	0.573	0.573	0.573	0.223	2.233	0.223	0.223	2.233	



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



http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT /.PS; start output  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 1/33

Input and Output: Printer Reflective System FRS06a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 31/360 = 0.08$

$H^*_- = R00Y_-$

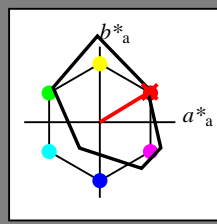
Data for any device (d) or elementary (e) colour:

$HIC^*_-$

hue text for the colours of this page:

$H^*_- = R00Y_-$

triangle lightness  $T^*$



**FRS06a; adapted (a) CIELAB data**

name	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R <sub>-,Ma</sub>	32.5	62.3	46.4	77.7	36
Y <sub>-,Ma</sub>	82.7	-3.1	113.9	114.0	91
G <sub>-,Ma</sub>	39.4	-61.8	45.8	76.9	143
C <sub>-,Ma</sub>	47.8	-26.8	-34.2	43.4	231
B <sub>-,Ma</sub>	10.1	55.1	-61.0	82.2	312
M <sub>-,Ma</sub>	34.5	80.6	-33.9	87.5	337
N <sub>-,Ma</sub>	6.2	0.0	0.0	0.0	0
W <sub>-,Ma</sub>	91.9	0.0	0.0	0.0	0
R <sub>-,CIE</sub>	39.9	58.7	27.9	65.0	25
Y <sub>-,CIE</sub>	81.2	-2.8	71.5	71.6	92
G <sub>-,CIE</sub>	52.2	-42.4	13.6	44.5	162
B <sub>-,CIE</sub>	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{-,Ma}$ : 48 66 40 77 31

$HIC^*_{-,Ma}$ : R00Y\_100\_100\_

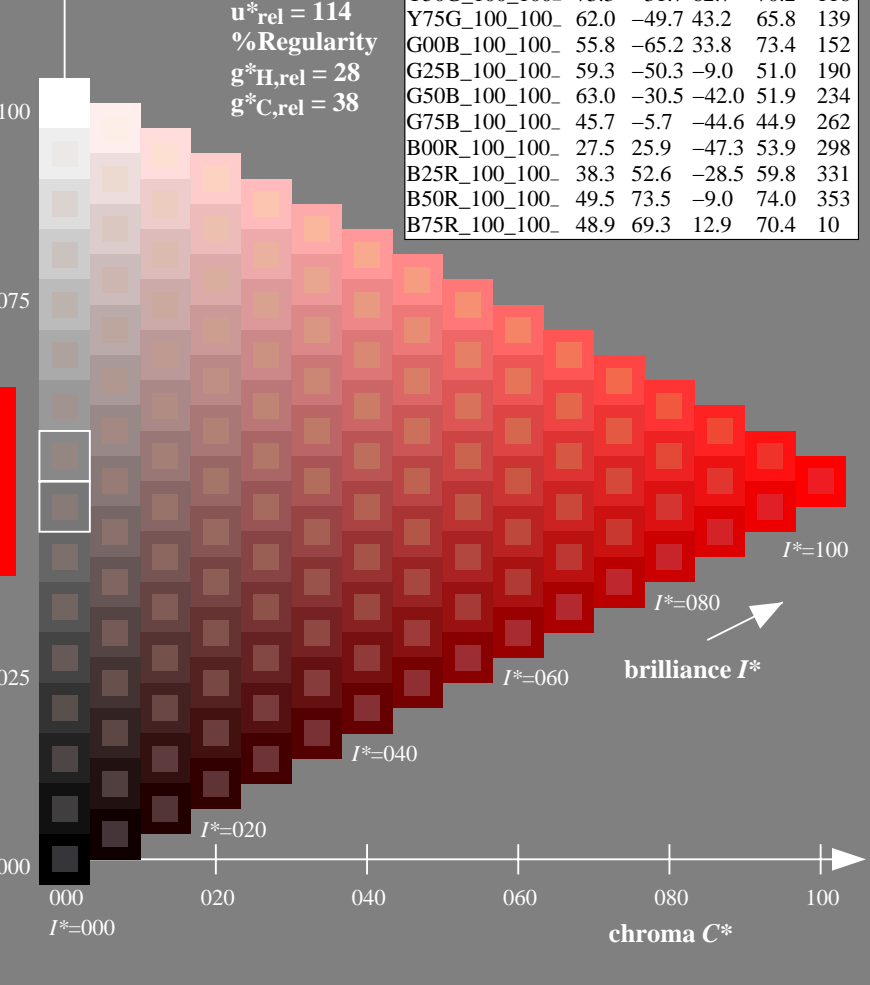
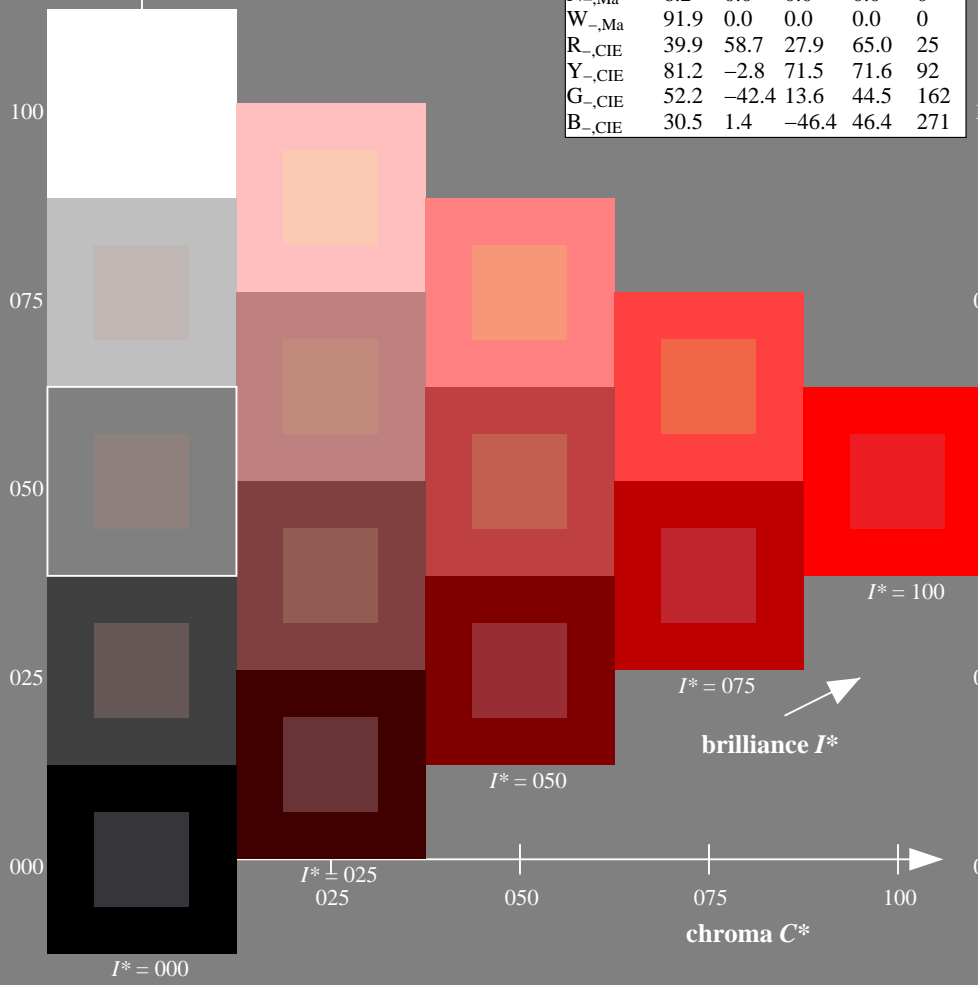
$rgbic^*_{-,Ma}$ :

1.0 0.0 0.0 1.0 1.0

triangle lightness  $T^*$

**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



see similar files: http://130.149.60.45/~farbmetrik/PE99/PE99.HTM  
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20150701-PE99/PE99LOFA.TXT /.PS  
application for measurement of laser printer output

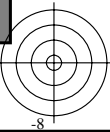
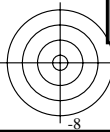
TUB material: code=rh4ta

1-113030-L0 PE990-7N

TUB-test chart PE99; hue code:  $H^*_- = R00Y_-$

Test chart according to DIN 33872, 3D=1, de=1,  $cmk^*$

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



Input and Output: Printer Reflective System FRS06a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 25/360 = 0.07$

$H^*_e = R00Y_e$

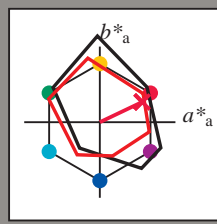
Data for any device (d) or elementary (e) colour:

$HIC^*_e$

hue text for the colours of this page:

$H^*_e = R00Y_e$

triangle lightness  $T^*$



**LRS18a; adapted (a) CIELAB data**

name	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
Re,Ma	47.5	56.0	26.7	62.1	25
Ye,Ma	83.6	-3.1	76.8	76.9	92
Ge,Ma	53.8	-65.9	21.1	69.2	162
Ce,Ma	54.9	-38.7	-29.1	48.4	216
Be,Ma	37.3	1.4	-48.6	48.7	271
Me,Ma	38.5	46.7	-28.5	54.7	328
Ne,Ma	23.8	0.0	0.0	0.0	0
We,Ma	95.8	0.0	0.0	0.0	0
Re,CIE	39.9	58.7	27.9	65.0	25
Ye,CIE	81.2	-2.8	71.5	71.6	92
Ge,CIE	52.2	-42.4	13.6	44.5	162
Be,CIE	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{e, Ma}: 47\ 56\ 26\ 62\ 25$

$HIC^*_{e, Ma}: R00Y\_100\_100_e$

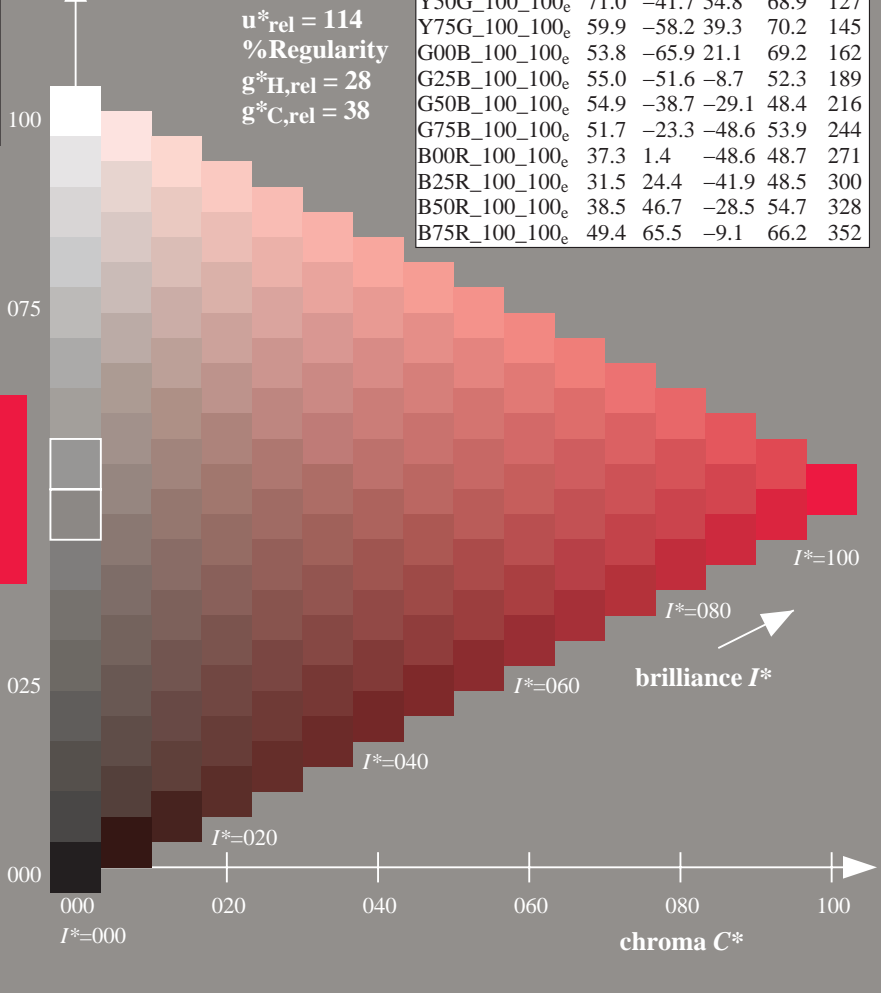
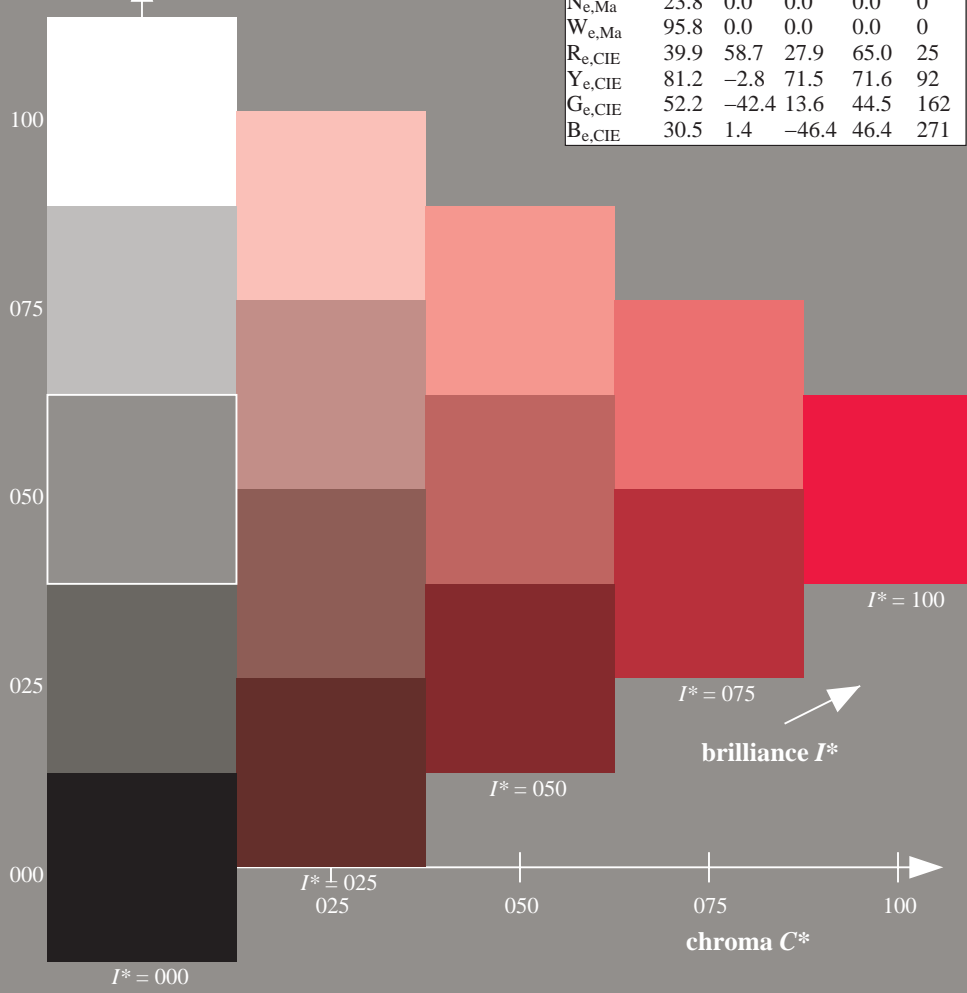
$rgbic^*_{e, Ma}$ :

1.0 0.0 0.26 1.0 1.0

triangle lightness  $T^*$

**LRS18a; adapted (a) CIELAB data**

$H^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_e	47.5	56.0	26.7	62.1	25
R25Y_100_100_e	51.4	54.8	47.7	72.6	41
R50Y_100_100_e	61.8	35.2	58.4	68.2	58
R75Y_100_100_e	72.3	16.1	68.2	70.1	76
Y00G_100_100_e	83.6	-3.1	76.8	76.9	92
Y25G_100_100_e	85.8	-26.4	78.5	82.9	108
Y50G_100_100_e	71.0	-41.7	54.8	68.9	127
Y75G_100_100_e	59.9	-58.2	39.3	70.2	145
G00B_100_100_e	53.8	-65.9	21.1	69.2	162
G25B_100_100_e	55.0	-51.6	-8.7	52.3	189
G50B_100_100_e	54.9	-38.7	-29.1	48.4	216
G75B_100_100_e	51.7	-23.3	-48.6	53.9	244
B00R_100_100_e	37.3	1.4	-48.6	48.7	271
B25R_100_100_e	31.5	24.4	-41.9	48.5	300
B50R_100_100_e	38.5	46.7	-28.5	54.7	328
B75R_100_100_e	49.4	65.5	-9.1	66.2	352



%Gamut  
 $u^*_{rel} = 114$   
%Regularity  
 $g^*_{H,rel} = 28$   
 $g^*_{C,rel} = 38$

see similar files: http://130.149.60.45/~farbmetrik/PE99/PE99.HTM  
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

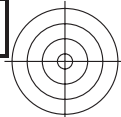
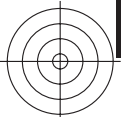
TUB registration: 20150701-PE99/PE99L0FA.TXT /.PS  
application for measurement of laser printer output, separation cmyk\* (CMYK)  
TUB material: code=rh4ta

1-113130-L0 PE990-73

TUB-test chart PE99; hue code:  $H^*_e=R00Y_e$   
Test chart according to DIN 33872, 3D=1, de=1, cmyk\*

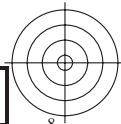
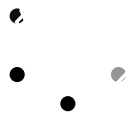
input:  $rgb/cmyk \rightarrow rgb_{de}$   
output: 3D-linearization to  $cmyk^*_{de}$

1-113130-F0



see similar files: <http://130.149.60.45/~farbmetrik/PE99/PE99.HTM>  
technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20150701-PE99/PE99L0FA.TXT /.PS TUB material: code=rh4ta  
application for measurement of laser printer output, separation cmyk\* (CMYK)

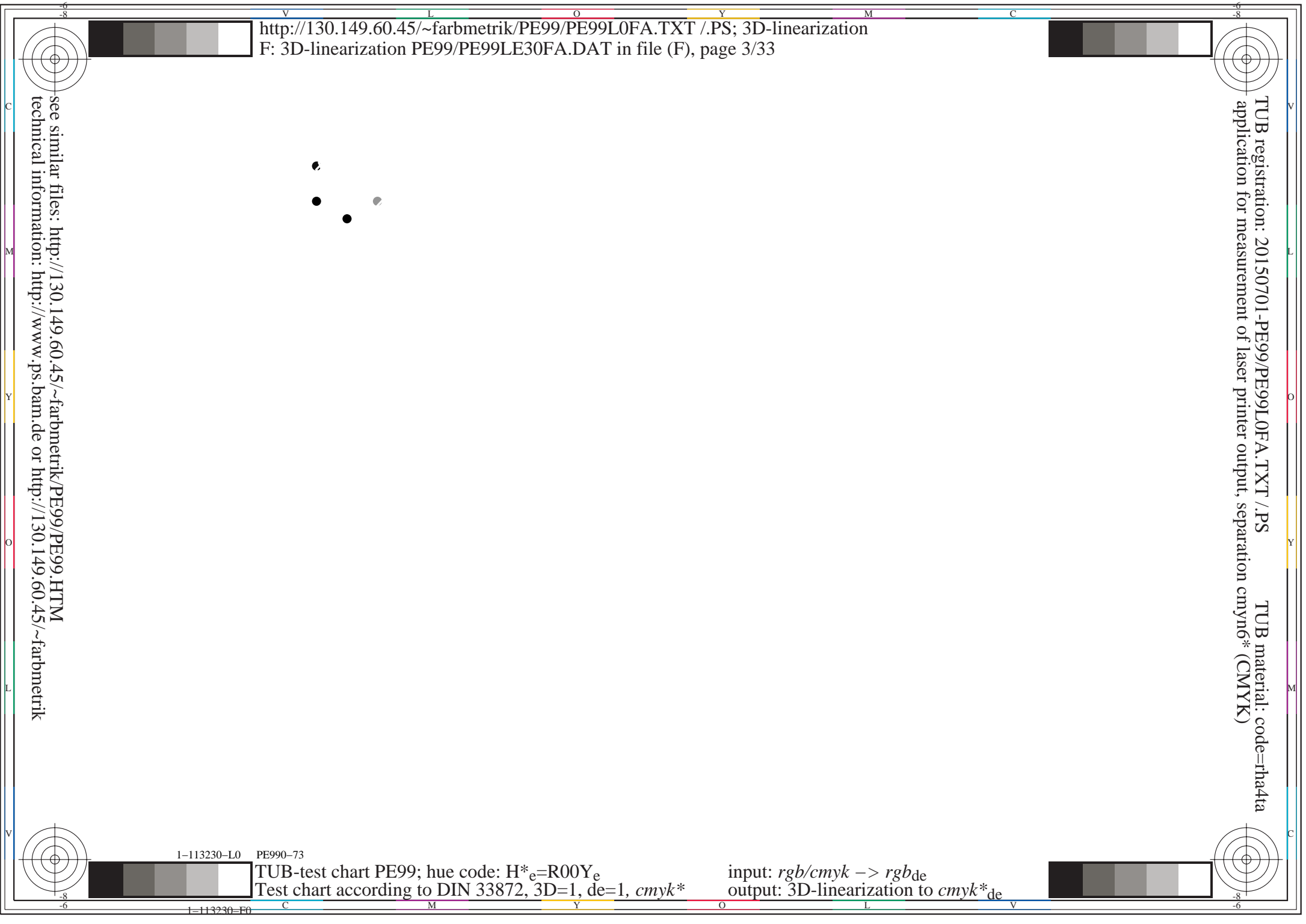


1-113230-L0 PE990-73

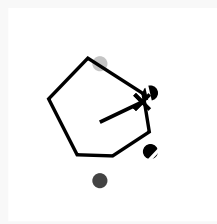
TUB-test chart PE99; hue code:  $H^*_e=R00Y_e$   
Test chart according to DIN 33872, 3D=1, de=1, cmyk\*

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

1=113230-F0



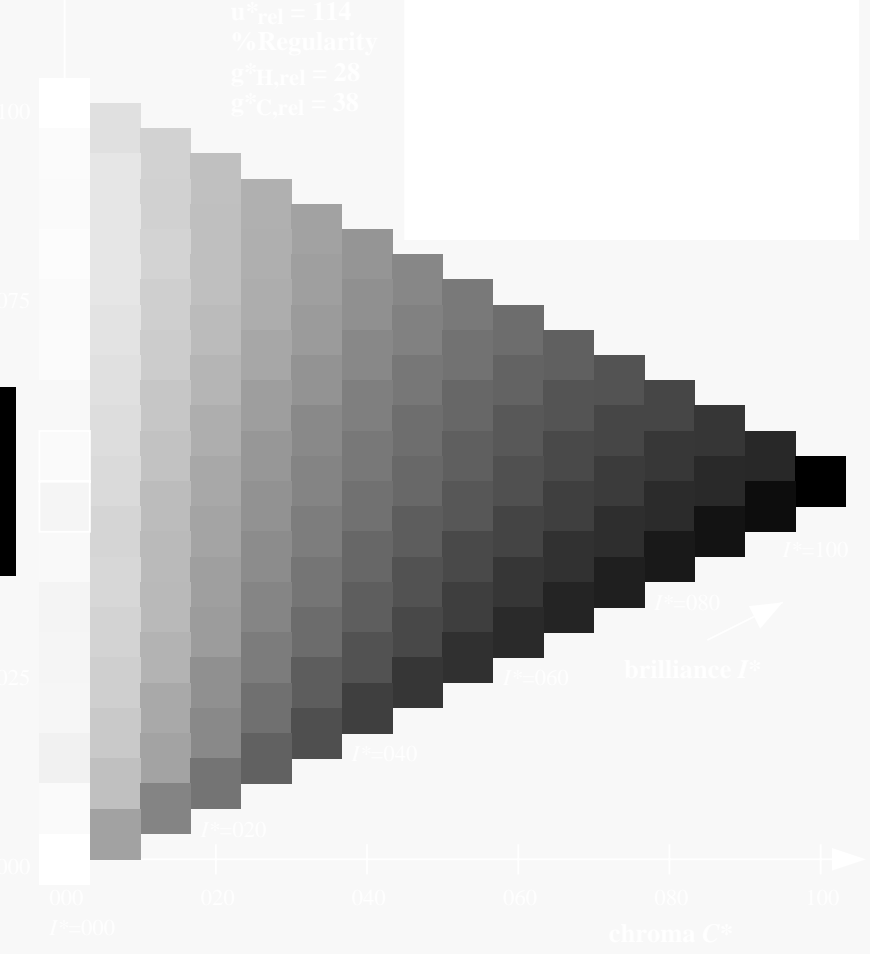
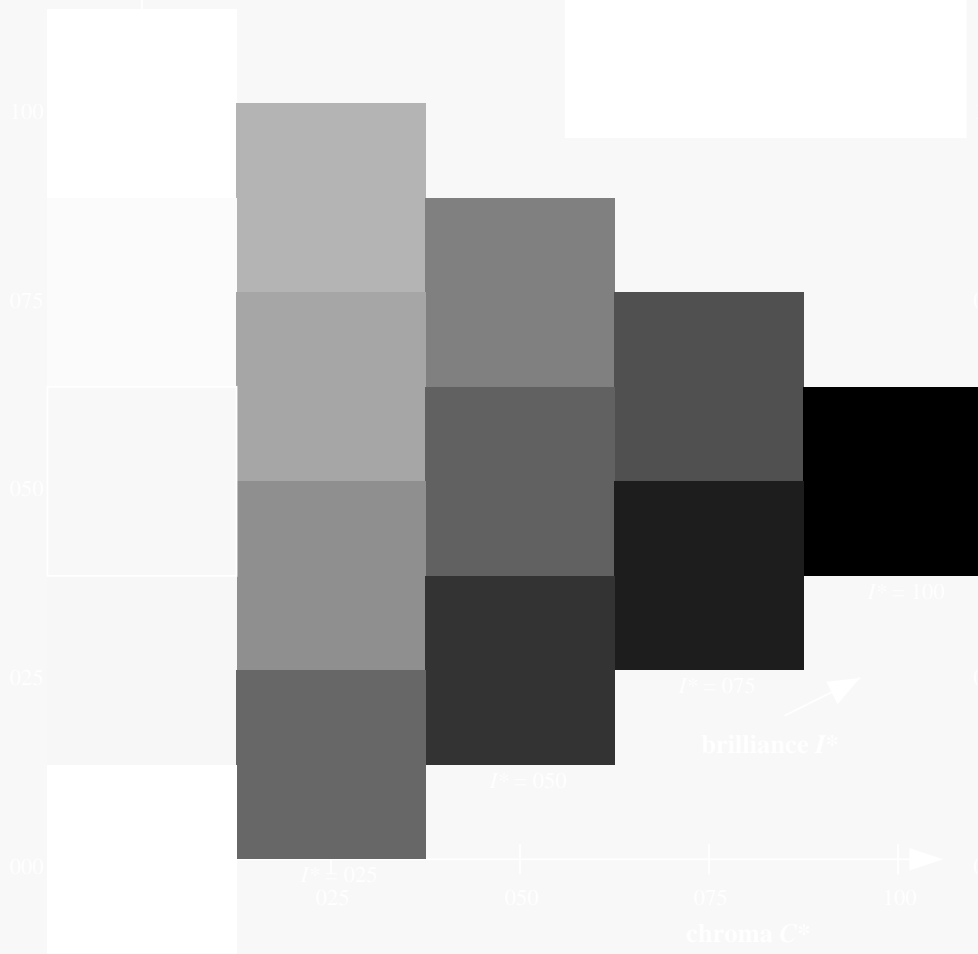
Input and Output: Printer Reflective System PRS06a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 25/360 = 0.07$   $H^*_e = R00Y_e$   
 Data for any device (d) or elementary (e) colour:  
 $HIC^*_e$   
 hue text for the colours of this page:  
 $H^*_e = R00Y_e$   
 triangle lightness  $T^*$



Data for maximum colour (Ma):

$LabCh^*_{e, Ma}: 47 \ 56 \ 26 \ 62 \ 25$   
 $HIC^*_{e, Ma}: R00Y_{100_{100}_e}$   
 $rgbic^*_{e, Ma}: 1.0 \ 0.0 \ 0.26 \ 1.0 \ 1.0$   
 triangle lightness  $T^*$

%Gamut  
 $u^*_{rel} = 114$   
 %Regularity  
 $g^*_{H, rel} = 28$   
 $g^*_{C, rel} = 38$



see similar files: <http://130.149.60.45/~farbmetrik/PE99/PE99.HTM>  
 technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20150701-PE99/PE99L0FA.TXT /.PS  
 application for measurement of laser printer output, separation cmyk\* (CMYK)  
 TUB material: code=rh4ta

1-113330-L0 PE990-73

TUB-test chart PE99; hue code:  $H^*_e=R00Y_e$   
 Test chart according to DIN 33872, 3D=1, de=1, cmyk\*

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

1-113330-F0

Input and Output: Printer Reflective System FRS06a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 25/360 = 0.07$

$H^*_e = R00Y_e$

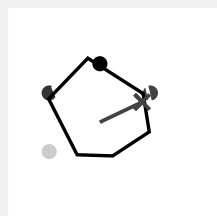
Data for any device (d) or elementary (e) colour:

$HIC^*_e$

hue text for the colours of this page:

$H^*_e = R00Y_e$

triangle lightness  $T^*$



Data for maximum colour (Ma):

$LabCh^*_{e, Ma}$ : 47 56 26 62 25

$HIC^*_{e, Ma}$ : R00Y\_100\_100\_e

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

1.0 0.0 0.26 1.0 1.0

triangle lightness  $T^*$

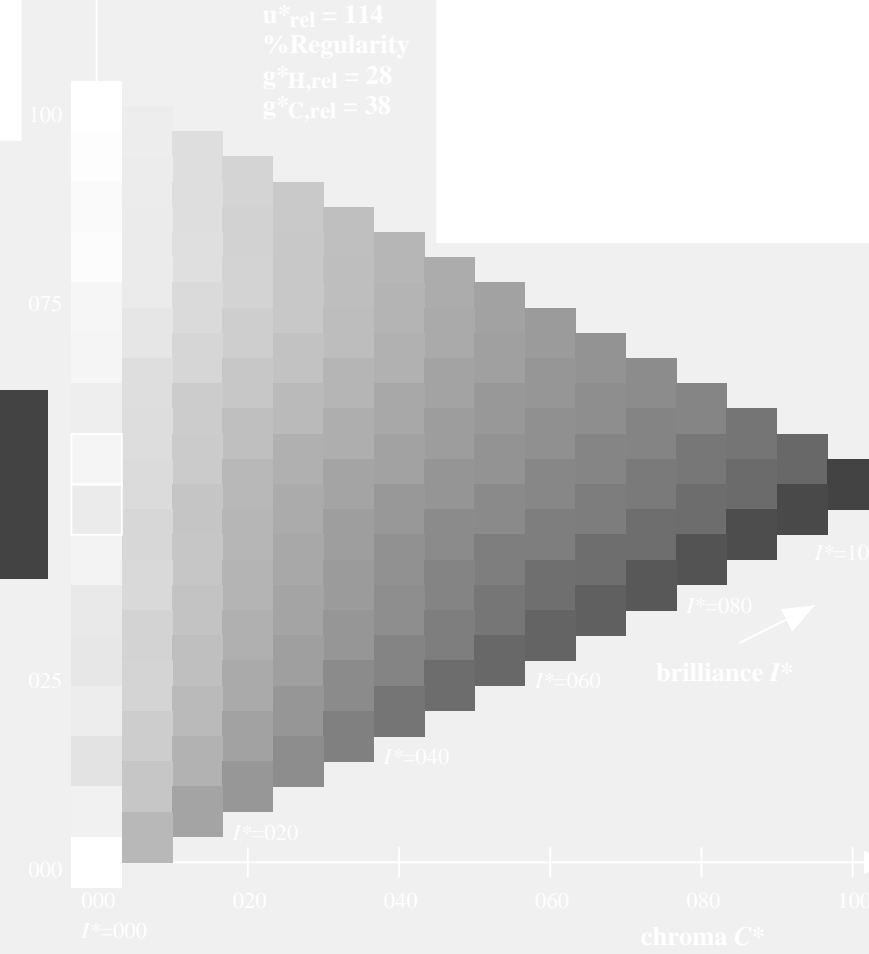
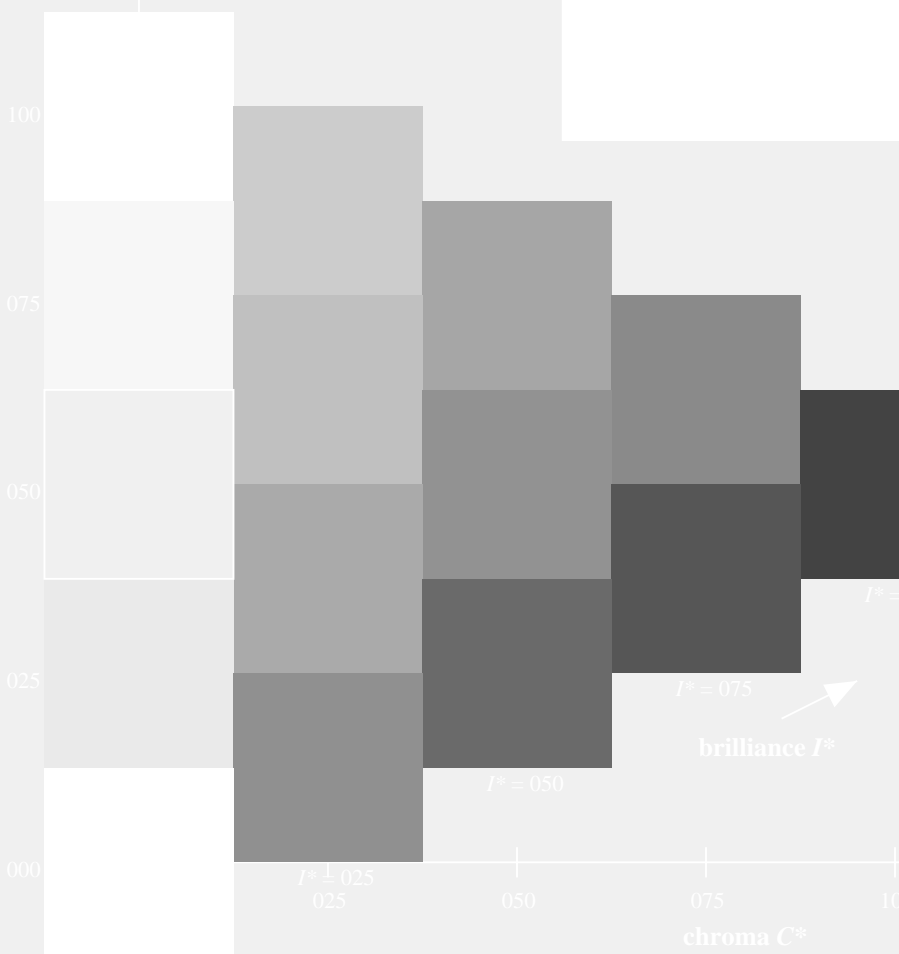
%Gamut

$u^*_{rel} = 114$

%Regularity

$g^*_{H, rel} = 28$

$g^*_{C, rel} = 38$



see similar files: <http://130.149.60.45/~farbmetrik/PE99/PE99L0FA.TXT> / .PS  
 technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

TUB registration: 20150701-PE99/PE99L0FA.TXT /.PS  
 application for measurement of laser printer output, separation cmyk\* (CMYK)  
 TUB material: code=rh4ta

1-113430-L0 PE990-73

TUB-test chart PE99; hue code:  $H^*_e=R00Y_e$   
 Test chart according to DIN 33872, 3D=1, de=1,  $cmyk^*$

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

1-113430-F0

Input and Output: Printer Reflective System FRS06a for relative CIELAB hue  $h_{ab,a,rel} = h_{ab}/360 = 25/360 = 0.07$

$H^*_e = R00Y_e$

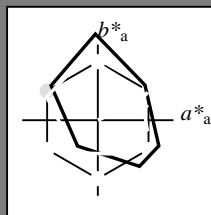
Data for any device (d) or elementary (e) colour:

$HIC^*_e$

hue text for the colours of this page:

$H^*_e = R00Y_e$

triangle lightness  $T^*$



LRS18a; adapted (a) CIELAB data

name	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
Re,Ma	47.5	56.0	26.7	62.1	25
Ye,Ma	83.6	-3.1	76.8	76.9	92
Ge,Ma	53.8	-65.9	21.1	69.2	162
Ce,Ma	54.9	-38.7	-29.1	48.4	216
Be,Ma	37.3	1.4	-48.6	48.7	271
Me,Ma	38.5	46.7	-28.5	54.7	328
Ne,Ma	23.8	0.0	0.0	0.0	0
We,Ma	95.8	0.0	0.0	0.0	0
Re,CIE	39.9	58.7	27.9	65.0	25
Ye,CIE	81.2	-2.8	71.5	71.6	92
Ge,CIE	52.2	-42.4	13.6	44.5	162
Be,CIE	30.5	1.4	-46.4	46.4	271

Data for maximum colour (Ma):

$LabCh^*_{e, Ma}: 47\ 56\ 26\ 62\ 25$

$HIC^*_{e, Ma}: R00Y\_100\_100_e$

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

1.0 0.0 0.26 1.0 1.0

triangle lightness  $T^*$

%Gamut

$u^*_{rel} = 114$

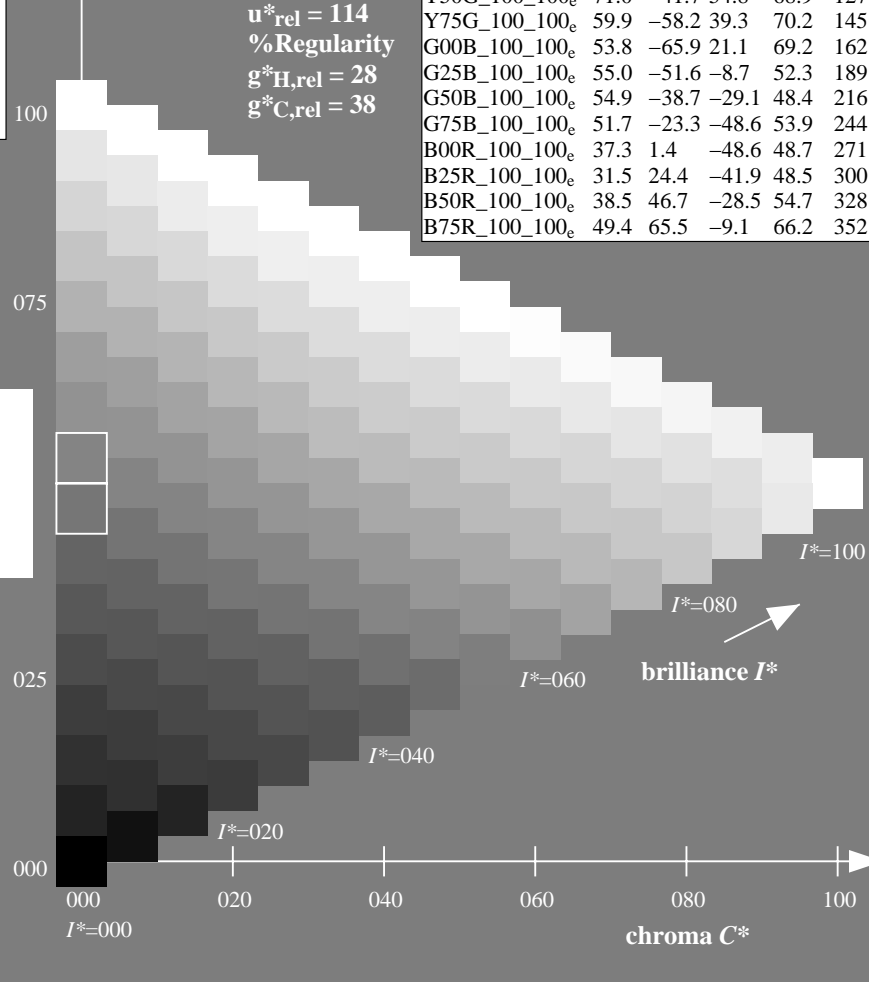
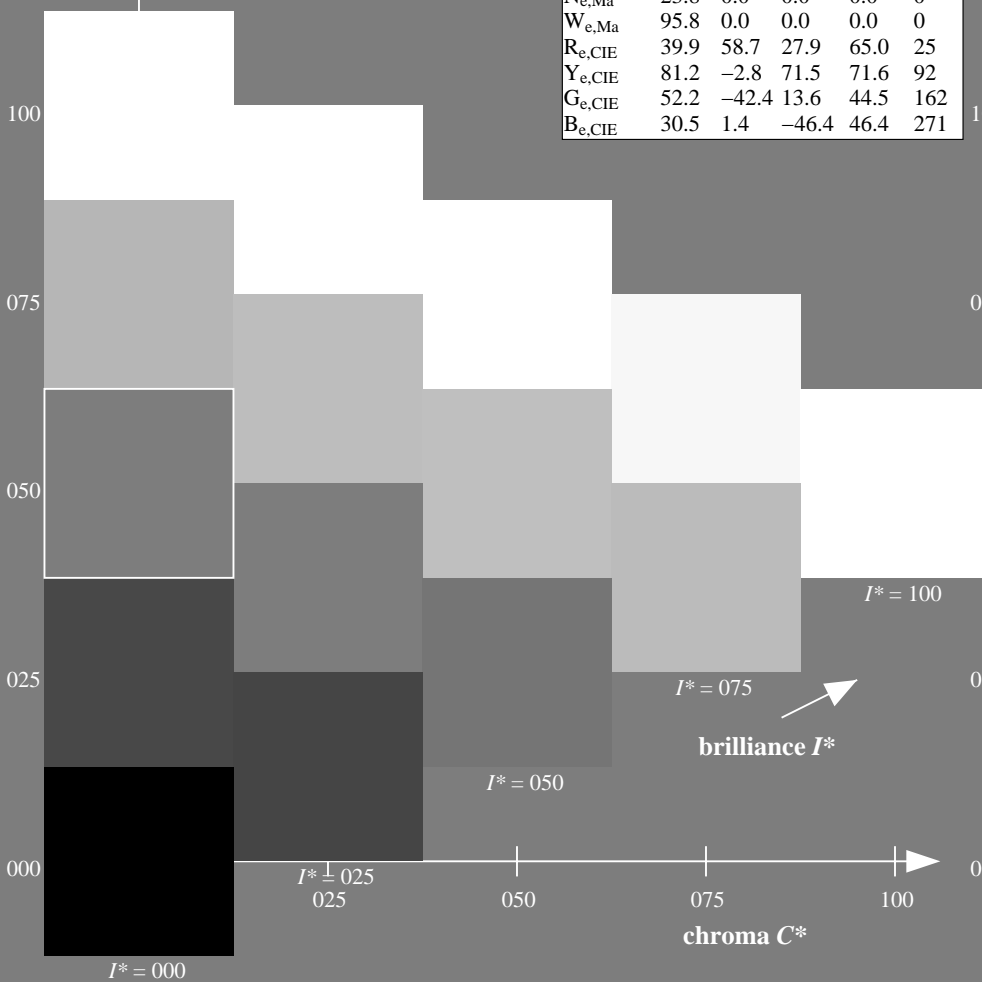
%Regularity

$g^*_{H,rel} = 28$

$g^*_{C,rel} = 38$

LRS18a; adapted (a) CIELAB data

$H^*_e$	$L^*=L^*_a$	$a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_e	47.5	56.0	26.7	62.1	25
R25Y_100_100_e	51.4	54.8	47.7	72.6	41
R50Y_100_100_e	61.8	35.2	58.4	68.2	58
R75Y_100_100_e	72.3	16.1	68.2	70.1	76
Y00G_100_100_e	83.6	-3.1	76.8	76.9	92
Y25G_100_100_e	85.8	-26.4	78.5	82.9	108
Y50G_100_100_e	71.0	-41.7	54.8	68.9	127
Y75G_100_100_e	59.9	-58.2	39.3	70.2	145
G00B_100_100_e	53.8	-65.9	21.1	69.2	162
G25B_100_100_e	55.0	-51.6	-8.7	52.3	189
G50B_100_100_e	54.9	-38.7	-29.1	48.4	216
G75B_100_100_e	51.7	-23.3	-48.6	53.9	244
B00R_100_100_e	37.3	1.4	-48.6	48.7	271
B25R_100_100_e	31.5	24.4	-41.9	48.5	300
B50R_100_100_e	38.5	46.7	-28.5	54.7	328
B75R_100_100_e	49.4	65.5	-9.1	66.2	352



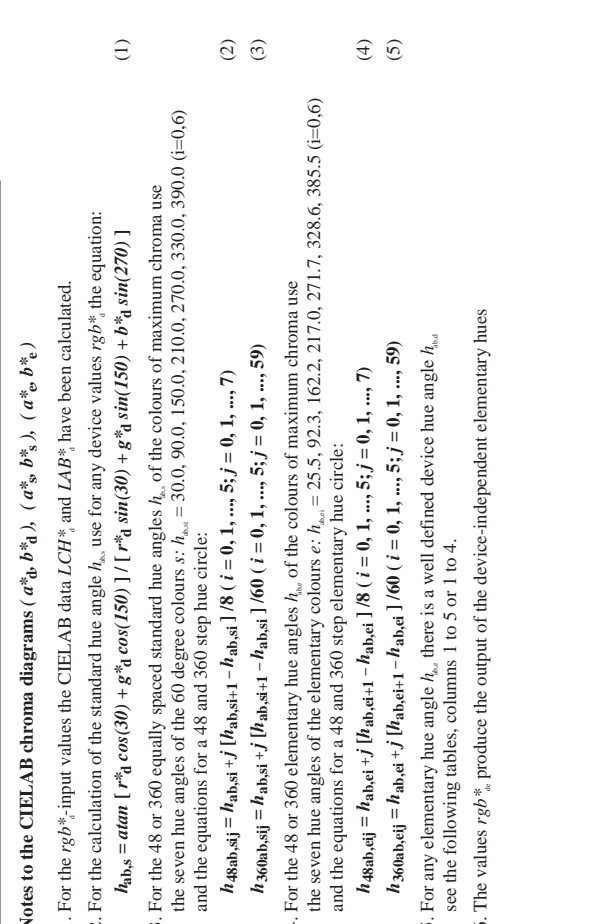
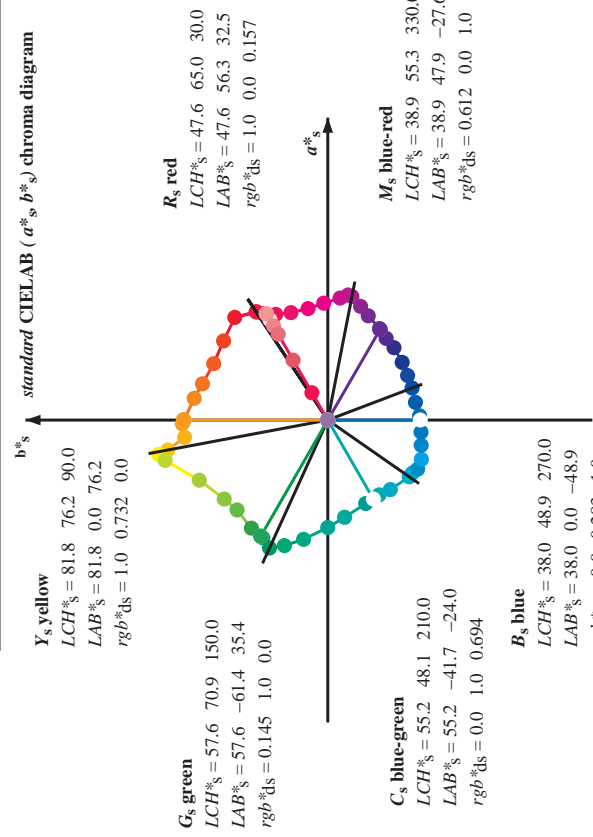
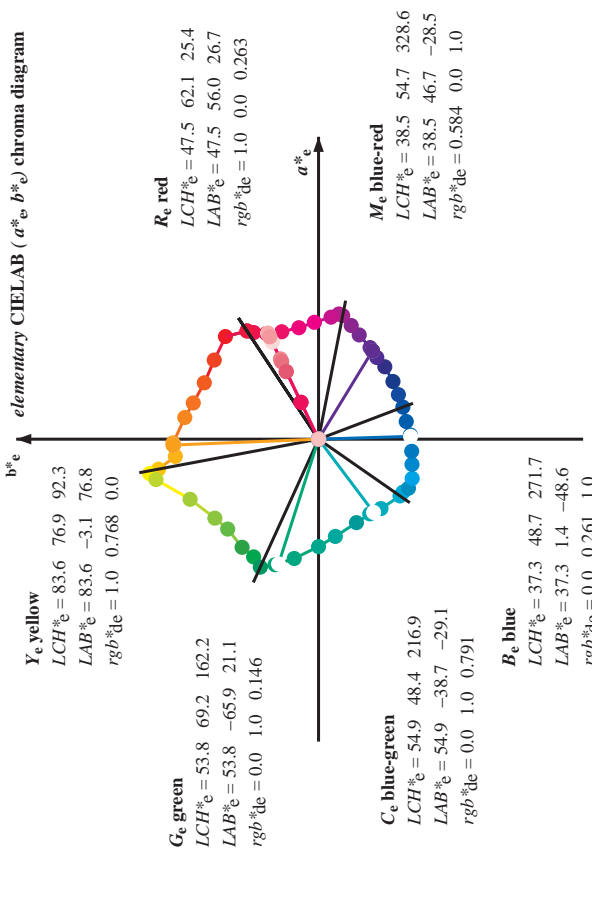
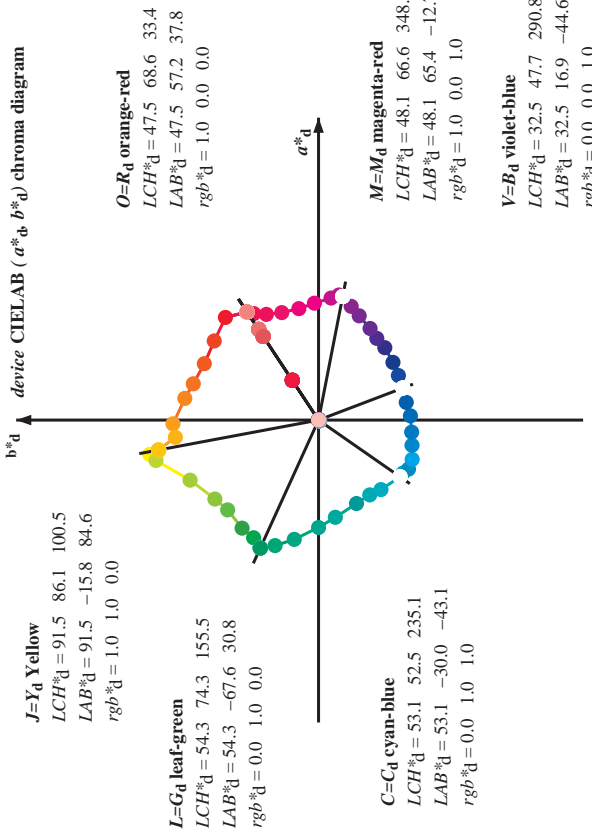
1-113530-L0 PE990-73

TUB-test chart PE99; hue code:  $H^*_e=R00Y_e$   
 Test chart according to DIN 33872, 3D=1, de=1,  $cm\ yk^*$

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

http://130.149.60.45/~farbmetrik/PE99/PE99L0FA.TXT /.PS; 3D-linearization  
 F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 7/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk\*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM;  $h_{abs,d} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
 Six hue angles of the device colours RYGBM;  $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six hue angles of the elementary colours RYGBM;  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$



Output: Laser printer output; separation cmyk\*, D65, page 7/36  
 input:  $rgb/cmyk \rightarrow rgbde$   
 output: 3D-linearization to  $cmyk^*_de$

I=113630-L0 PE990-73 LAB\*lab, YN=0%, XY,Znw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB\*mw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0  
 I=113630-ED



http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT / PS; 3D-linearization F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 8/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk\*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; h\_ab,d\_s = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;

Table with 10 columns: h\_ab,d, h\_ab,s, h\_ab,e, Lab\* d64M, Lab\* d65, Lab\* d66, Lab\* d67, Lab\* d68, Lab\* d69, Lab\* d70. Each row contains 10 numerical values representing colorimetric data for a specific hue angle.

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

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk\*; D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM(d);  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
Six hue angles of the device colours RYGBM(d);  $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six hue angles of the elementary colours RYGBM(c);  $h_{ab,c} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{ds}$	$rgb^*_{de}$	$LAB^*_{ds}$	$LAB^*_{de}$	$rgb^*_{ds}$	$rgb^*_{de}$	$LAB^*_{ds}$	$LAB^*_{de}$	
33.4	30.0	25.4	1.0	0.0	0.0	47.5	57.2	37.8	68.6	33.4	33.4
42.1	37.5	33.8	1.0	0.125	0.0	51.9	54.3	49.2	73.2	42.1	42.1
52.8	45.0	42.1	1.0	0.25	0.0	58.2	41.8	55.1	69.2	52.8	52.8
63.7	52.5	50.5	1.0	0.375	0.0	64.6	29.8	60.4	67.3	63.7	63.7
73.8	60.0	58.8	1.0	0.5	0.0	70.5	19.2	66.2	69.0	73.8	73.8
80.7	67.5	67.2	1.0	0.625	0.0	74.9	11.4	70.7	71.6	80.7	80.7
91.5	75.0	75.6	1.0	0.75	0.0	82.9	-2.0	76.9	77.0	91.5	91.5
96.8	82.5	83.9	1.0	0.875	0.0	87.6	-9.0	75.7	76.3	96.8	96.8
100.5	90.0	92.3	1.0	1.0	0.0	91.5	-15.8	84.6	86.1	100.5	100.5
101.4	97.5	101.0	1.0	0.875	1.0	92.8	-18.1	89.4	91.2	101.4	101.4
103.9	105.0	109.7	1.0	0.75	1.0	90.1	-21.3	86.0	88.6	103.9	103.9
115.0	112.5	118.5	1.0	0.625	1.0	87.9	-31.7	67.9	75.0	115.0	115.0
127.3	120.0	127.2	0.5	1.0	0.0	70.9	-41.7	54.8	68.9	127.3	127.3
134.7	127.5	136.0	0.375	1.0	0.0	66.5	-47.5	48.0	67.6	134.7	134.7
144.7	135.0	144.7	0.25	1.0	0.0	60.6	-57.2	40.4	70.1	144.7	144.7
151.0	142.5	153.4	0.125	1.0	0.0	57.0	-62.2	34.4	71.1	151.0	151.0
155.5	150.0	162.2	0.0	1.0	0.0	54.3	-67.6	30.8	74.3	155.5	155.5
160.8	157.5	169.0	0.0	1.0	0.125	53.8	-66.4	23.0	70.2	160.8	160.8
168.5	165.0	175.9	0.0	1.0	0.25	53.7	-63.1	12.8	64.4	168.5	168.5
179.9	172.5	182.7	0.0	1.0	0.375	54.7	-56.8	0.0	56.8	179.9	179.9
189.8	180.0	189.6	0.0	1.0	0.5	55.0	-51.4	-8.9	52.2	189.8	189.8
204.4	187.5	196.4	0.0	1.0	0.625	55.3	-44.1	-20.0	48.5	204.4	204.4
214.4	195.0	203.2	0.0	1.0	0.75	55.2	-39.5	-27.1	47.9	214.4	214.4
221.9	202.5	210.1	0.0	1.0	0.875	54.4	-36.7	-33.0	49.4	221.9	221.9
235.1	210.0	216.9	0.0	1.0	1.0	53.1	-30.0	-43.1	52.5	235.1	235.1
237.9	217.5	223.8	0.0	0.875	1.0	53.1	-27.9	-44.7	52.7	237.9	237.9
241.3	225.0	230.6	0.0	0.75	1.0	52.9	-25.9	-47.5	54.1	241.3	241.3
247.2	232.5	237.5	0.0	0.625	1.0	50.5	-20.8	-49.5	53.7	247.2	247.2
254.9	240.0	244.3	0.0	0.5	1.0	46.1	-13.3	-49.4	51.1	254.9	254.9
262.6	247.5	251.2	0.0	0.375	1.0	41.4	-6.3	-49.2	49.6	262.6	262.6
272.6	255.0	258.0	0.0	0.25	1.0	36.8	2.2	-48.5	48.6	272.6	272.6
281.4	262.5	264.8	0.0	0.125	1.0	35.0	9.4	-46.3	47.3	281.4	281.4
290.8	270.0	271.7	0.0	0.0	1.0	32.5	16.9	-44.6	47.7	290.8	290.8
299.2	277.5	278.8	0.125	0.0	1.0	31.6	23.6	-42.2	48.4	299.2	299.2
307.8	285.0	285.9	0.25	0.0	1.0	31.0	30.5	-39.3	49.8	307.8	307.8
317.5	292.5	293.0	0.375	0.0	1.0	34.2	38.2	-35.0	51.8	317.5	317.5
324.4	300.0	300.1	0.5	0.0	1.0	37.2	43.1	-30.8	53.0	324.4	324.4
330.6	307.5	307.2	0.625	0.0	1.0	39.1	48.4	-27.2	55.6	330.6	330.6
338.7	315.0	314.3	0.75	0.0	1.0	41.8	55.1	-21.4	59.1	338.7	338.7
343.9	322.5	321.4	0.875	0.0	1.0	45.6	60.1	-17.3	62.6	343.9	343.9
348.9	330.0	328.6	1.0	0.0	1.0	48.1	65.4	-12.7	66.6	348.9	348.9
350.7	337.5	335.7	1.0	0.0	0.875	49.5	66.1	-10.7	67.0	350.7	350.7
354.2	345.0	342.8	1.0	0.0	0.75	49.3	64.5	-6.5	64.8	354.2	354.2
361.9	352.5	349.9	1.0	0.0	0.625	48.0	61.8	2.1	61.8	361.9	361.9
370.0	360.0	357.0	1.0	0.0	0.5	47.8	58.9	10.4	59.9	370.0	370.0
378.9	367.5	364.1	1.0	0.0	0.375	47.4	56.8	19.5	60.0	378.9	378.9
386.2	375.0	371.2	1.0	0.0	0.25	47.5	55.9	27.5	62.3	386.2	386.2
391.3	382.5	378.3	1.0	0.0	0.125	47.6	56.3	34.2	65.9	391.3	391.3
393.4	390.0	385.4	1.0	0.0	0.0	47.5	57.2	37.8	68.6	393.4	393.4

Input: Laser printer output; separation cmyk\*  
Output: Laser printer output; separation cmyk\*  
input: rgb/cmyk -> rgbde  
output: 3D-linearization to cmyk\*de

I=113830-L0 PE990-73 LAB\*lab0, YN=0%, XY,Znw=3.9, 4.1, 4.1, 84.7, 89.6, 93.9, LAB\*mnw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0



Data of Maximum color. M in colorimetric system Laser printer output; separation cmyk\*. D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM;  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;

Six hue angles of the device colours RYGBM;  $h_{ab,d} = 33.5, 100.6, 155.2, 290.8, 348.9$ ; Six hue angles of the elementary colours RYGBM;  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^{*}_{ds}$	$rgb^{*}_{ds361M}$	$LAB^{*}_{ds361MI}$	$LAB^{*}_{ds361MI}$	$LAB^{*}_{ds361MI}$	$rgb^{*}_{ds361MI}$	$LAB^{*}_{ds361MI}$	$LAB^{*}_{ds361MI}$	$LAB^{*}_{ds361MI}$	$rgb^{*}_{ds361MI}$	$rgb^{*}_{ds361MI}$																					
-268	75	75	1.0	0.75	0.0	82.9	-2.0	76.9	77.0	-268	$R_d$	1.0	0.521	0.0	71.3	18.0	67.1	69.5	75	1.0	0.75	0.0	1.0	0.532	0.0	71.6	17.3	67.5	69.7	75	1.0	0.75	0.0	
92	76	76	1.0	0.766	0.0	83.5	-2.9	76.8	76.9	92		1.0	0.539	0.0	71.9	16.9	67.8	69.8	76	1.0	0.767	0.0	1.0	0.552	0.0	72.3	16.1	68.2	70.1	76	1.0	0.767	0.0	
92	77	77	1.0	0.783	0.0	84.2	-3.9	76.7	76.8	92		1.0	0.557	0.0	72.5	15.8	68.4	70.2	77	1.0	0.783	0.0	1.0	0.572	0.0	73.0	14.9	69.0	70.5	77	1.0	0.783	0.0	
93	78	78	1.0	0.8	0.0	84.8	-4.8	76.5	76.7	93		1.0	0.575	0.0	73.1	14.7	69.1	70.6	78	1.0	0.8	0.0	1.0	0.592	0.0	73.7	13.6	69.7	71.0	78	1.0	0.8	0.0	
94	79	80	1.0	0.816	0.0	85.4	-5.8	76.4	76.6	94		1.0	0.593	0.0	73.8	13.5	69.7	71.1	79	1.0	0.817	0.0	1.0	0.612	0.0	74.4	12.3	70.3	71.4	80	1.0	0.817	0.0	
95	80	81	1.0	0.833	0.0	86.0	-6.7	76.2	76.5	95		1.0	0.611	0.0	74.4	13.4	70.3	71.4	80	1.0	0.833	0.0	1.0	0.629	0.0	75.2	11.0	71.0	71.9	81	1.0	0.833	0.0	
95	81	82	1.0	0.85	0.0	86.6	-7.6	76.0	76.4	95		1.0	0.627	0.0	75.1	11.2	70.9	71.8	81	1.0	0.85	0.0	1.0	0.642	0.0	76.0	9.7	71.8	72.4	82	1.0	0.85	0.0	
96	82	83	1.0	0.866	0.0	87.3	-8.6	75.8	76.3	96		1.0	0.639	0.0	75.8	10.1	71.6	72.3	82	1.0	0.867	0.0	1.0	0.655	0.0	76.9	8.4	72.5	73.0	83	1.0	0.867	0.0	
97	83	84	1.0	0.883	0.0	87.8	-9.4	76.3	76.9	97		1.0	0.651	0.0	76.6	8.9	72.2	72.8	83	1.0	0.883	0.0	1.0	0.668	0.0	77.7	7.0	73.2	73.5	84	1.0	0.883	0.0	
97	84	85	1.0	0.9	0.0	88.4	-10.3	77.6	78.2	97		1.0	0.662	0.0	77.3	7.7	72.9	73.3	84	1.0	0.9	0.0	1.0	0.681	0.0	78.5	5.6	73.9	74.1	85	1.0	0.9	0.0	
98	85	86	1.0	0.916	0.0	88.9	-11.2	78.8	79.6	98		1.0	0.674	0.0	78.1	6.4	73.5	73.8	85	1.0	0.917	0.0	1.0	0.694	0.0	79.4	4.2	74.5	74.6	86	1.0	0.917	0.0	
98	86	87	1.0	0.933	0.0	89.4	-12.0	80.0	80.9	98		1.0	0.686	0.0	78.8	5.2	74.1	74.3	86	1.0	0.933	0.0	1.0	0.707	0.0	80.2	2.8	75.1	75.2	87	1.0	0.933	0.0	
99	87	88	1.0	0.95	0.0	89.9	-12.9	81.1	82.2	99		1.0	0.697	0.0	79.6	3.9	74.7	74.8	87	1.0	0.95	0.0	1.0	0.72	0.0	81.1	1.4	75.7	75.7	88	1.0	0.95	0.0	
99	88	90	1.0	0.966	0.0	90.5	-13.9	82.3	83.5	99		1.0	0.709	0.0	80.3	2.6	75.2	75.3	88	1.0	0.967	0.0	1.0	0.733	0.0	81.9	0.0	76.3	76.3	90	1.0	0.967	0.0	
100	89	91	1.0	0.983	0.0	91.0	-14.8	83.5	84.8	100		1.0	0.721	0.0	81.1	1.3	75.8	75.8	89	1.0	0.983	0.0	1.0	0.746	0.0	82.7	-1.5	76.8	76.9	91	1.0	0.983	0.0	
100	90	92	1.0	1.0	0.0	91.5	-15.8	84.6	86.1	100	$Y_d$	1.0	0.732	0.0	81.8	0.0	76.3	76.3	90	1.0	1.0	0.0	1.0	0.749	0.0	83.7	-3.0	76.8	76.9	92	1.0	1.0	0.0	
100	91	93	0.983	1.0	0.0	91.7	-16.1	85.3	86.8	100		1.0	0.744	0.0	82.6	-1.2	76.7	76.8	91	0.983	1.0	0.0	1.0	0.769	0.0	84.7	-4.6	76.6	76.8	93	0.983	1.0	0.0	
100	92	94	0.966	1.0	0.0	91.9	-16.4	85.9	87.5	100		1.0	0.761	0.0	83.4	-2.6	76.9	77.0	92	0.967	1.0	0.0	1.0	0.823	0.0	85.7	-6.1	76.4	76.6	94	0.967	1.0	0.0	
100	93	95	0.95	1.0	0.0	92.0	-16.7	86.5	88.2	100		1.0	0.785	0.0	84.3	-3.9	76.7	76.8	93	0.95	1.0	0.0	1.0	0.851	0.0	86.7	-7.6	76.1	76.5	95	0.95	1.0	0.0	
101	94	96	0.933	1.0	0.0	92.2	-17.0	87.2	88.8	101		1.0	0.808	0.0	85.1	-5.2	76.5	76.7	94	0.933	1.0	0.0	1.0	0.879	0.0	87.8	-9.2	76.1	76.7	96	0.933	1.0	0.0	
101	95	98	0.916	1.0	0.0	92.4	-17.3	87.8	89.5	101		1.0	0.832	0.0	86.0	-6.6	76.3	76.6	95	0.917	1.0	0.0	1.0	0.918	0.0	89.0	-11.2	78.9	79.7	98	0.917	1.0	0.0	
101	96	99	0.9	1.0	0.0	92.5	-17.6	88.4	90.2	101		1.0	0.855	0.0	86.9	-7.9	76.0	76.4	96	0.9	1.0	0.0	1.0	0.957	0.0	90.2	-13.3	81.7	82.8	99	0.9	1.0	0.0	
101	97	100	0.883	1.0	0.0	92.7	-18.0	89.1	90.9	101		1.0	0.88	0.0	87.8	-9.3	76.2	76.7	97	0.883	1.0	0.0	1.0	0.996	0.0	91.5	-15.5	84.4	85.8	100	0.883	1.0	0.0	
101	98	101	0.866	1.0	0.0	92.6	-18.3	89.2	91.0	101		1.0	0.914	0.0	88.8	-10.9	78.6	79.4	98	0.867	1.0	0.0	1.0	0.867	1.0	0.0	92.6	-18.3	89.2	91.1	101	0.867	1.0	0.0
101	99	102	0.85	1.0	0.0	92.2	-18.8	88.7	90.7	101		1.0	0.947	0.0	89.9	-12.7	81.0	82.0	99	0.85	1.0	0.0	1.0	0.808	1.0	0.0	91.4	-19.8	87.6	89.9	102	0.85	1.0	0.0
102	100	103	0.833	1.0	0.0	91.9	-19.2	88.3	90.3	102		1.0	0.98	0.0	91.0	-14.6	83.3	84.6	100	0.833	1.0	0.0	1.0	0.737	1.0	0.0	89.0	-22.7	84.2	87.2	103	0.833	1.0	0.0
102	101	105	0.816	1.0	0.0	91.5	-19.6	87.8	90.0	102		0.943	1.0	0.0	92.2	-16.8	86.9	88.5	101	0.817	1.0	0.0	1.0	0.757	1.0	0.0	90.1	-21.3	86.0	88.6	103	0.817	1.0	0.0
102	102	106	0.8	1.0	0.0	91.1	-20.1	87.4	89.7	102		0.849	1.0	0.0	92.2	-18.8	88.7	90.7	102	0.8	1.0	0.0	1.0	0.724	1.0	0.0	88.0	-24.0	82.3	85.8	106	0.8	1.0	0.0
103	103	107	0.783	1.0	0.0	90.8	-20.5	86.9	89.3	103		0.798	1.0	0.0	91.2	-20.1	87.4	89.7	103	0.783	1.0	0.0	1.0	0.71	1.0	0.0	86.9	-25.2	80.5	84.3	107	0.783	1.0	0.0
103	104	108	0.766	1.0	0.0	90.4	-20.9	86.5	89.0	103		0.749	1.0	0.0	90.1	-21.3	86.0	88.6	104	0.767	1.0	0.0	1.0	0.697	1.0	0.0	85.8	-26.4	78.6	82.9	108	0.767	1.0	0.0
103	105	109	0.75	1.0	0.0	90.1	-21.3	86.0	88.6	103		0.738	1.0	0.0	89.2	-22.5	84.4	87.4	105	0.75	1.0	0.0	1.0	0.684	1.0	0.0	84.7	-27.5	76.7	81.5	109	0.75	1.0	0.0
105	106	110	0.733	1.0	0.0	89.7	-21.8	83.7	86.8	105		0.727	1.0	0.0	88.2	-23.6	82.8	86.1	106	0.733	1.0	0.0	1.0	0.671	1.0	0.0	83.7	-28.5	74.8	80.0	110	0.733	1.0	0.0
106	107	112	0.716	1.0	0.0	87.3	-24.7	81.3	85.0	106		0.716	1.0	0.0	87.3	-24.7	81.2	84.9	107	0.717	1.0	0.0	1.0	0.658	1.0	0.0	82.6	-29.5	72.8	78.6	112	0.717	1.0	0.0
108	108	113	0.7	1.0	0.0	86.0	-26.2	78.9	83.2	108		0.704	1.0	0.0	86.4	-25.8	79.6	83.7	108	0.7	1.0	0.0	1.0	0.645	1.0	0.0	81.5	-30.4	70.9	77.2	113	0.7	1.0	0.0
109	109	114	0.683	1.0	0.0	84.6	-27.6	76.5	81.3	109		0.693	1.0	0.0	85.5	-26.7	78.0	82.5	109	0.683	1.0	0.0	1.0	0.632	1.0	0.0	80.4	-31.3	69.0	75.7	114	0.683	1.0	0.0
111	110	115	0.666	1.0	0.0	83.3	-28.9	74.1	79.5	111		0.682	1.0	0.0	84.5	-27.7	76.3	81.2	110	0.667	1.0	0.0	1.0	0.619	1.0	0.0	79.5	-32.2	67.4	74.7	115	0.667	1.0	0.0
112	111	116	0.65	1.0	0.0	81.9	-30.1	71.6	77.7	112		0.657	1.0	0.0	83.6	-28.6	74.7	80.0	111	0.65	1.0	0.0	1.0	0.607	1.0	0.0	78.6	-33.3	66.2	74.2	116	0.65	1.0	0.0
114	112	117	0.633	1.0	0.0	80.5	-31.2	69.2	75.9	114		0.659	1.0	0.0	82.7	-29.4	73.0	78.8	112	0.633	1.0	0.0	1.0	0.595	1.0	0.0	77.8	-34.4	65.0	73.6	117	0.633	1.0	0.0
115	113	119	0.616	1.0	0.0	79.3	-32.5	67.1	74.6	115		0.648	1.0	0.0	81.8	-30.2	71.4	77.5	113	0.617	1.0	0.0	1.0	0.584	1.0	0.0	77.0	-35.4	63.8	73.0	119	0.617	1.0	0.0
117	114	120	0.6	1.0	0.0	78.1	-34.0	65.4	73.8	117		0.637	1.0	0.0	80.9	-30.9	69.7	76.3	114	0.6	1.0	0.0	1.0	0.572	1.0	0.0	76.1	-36.4	62.5</					



http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT /.PS; 3D-linearization  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 13/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk\*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM;  $h_{ab,ds} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{ds}$	$rgb^*_{ds361MI}$	$LAB^*_{ds361MI}$	$LAB^*_{ds361MI}(x=LabCh)$	$rgb^*_{ds361MI}$	$rgb^*_{ds361MI}$	$LAB^*_{ds361MI}$	$LAB^*_{ds361MI}(x=LabCh)$	$rgb^*_{ds}$	$rgb^*_{ds}$	$rgb^*_{ds}$
168	165	175	0.0	1.0	0.25	53.8	-64.7	17.4	67.1	165	0.0	1.0	0.25
170	166	176	0.0	1.0	0.266	53.9	-62.4	10.9	63.4	170	0.0	1.0	0.267
171	167	177	0.0	1.0	0.283	54.0	-61.7	9.1	62.4	171	0.0	1.0	0.283
173	168	178	0.0	1.0	0.3	54.1	-60.9	7.3	61.3	173	0.0	1.0	0.3
174	169	179	0.0	1.0	0.316	54.3	-60.1	5.6	60.3	174	0.0	1.0	0.317
176	170	180	0.0	1.0	0.333	54.4	-59.2	3.9	59.3	176	0.0	1.0	0.333
177	171	181	0.0	1.0	0.35	54.5	-58.2	2.3	58.3	177	0.0	1.0	0.35
179	172	182	0.0	1.0	0.366	54.7	-57.3	0.8	57.3	179	0.0	1.0	0.367
180	173	183	0.0	1.0	0.383	54.7	-56.5	-0.6	56.5	180	0.0	1.0	0.383
181	174	184	0.0	1.0	0.4	54.8	-55.8	-1.8	55.9	181	0.0	1.0	0.4
183	175	185	0.0	1.0	0.416	54.8	-55.2	-3.1	55.2	183	0.0	1.0	0.417
184	176	185	0.0	1.0	0.433	54.8	-54.5	-4.3	54.6	184	0.0	1.0	0.433
185	177	186	0.0	1.0	0.45	54.9	-53.7	-5.5	54.0	185	0.0	1.0	0.45
187	178	187	0.0	1.0	0.466	54.9	-53.0	-6.6	53.4	187	0.0	1.0	0.467
188	179	188	0.0	1.0	0.483	55.0	-52.2	-7.8	52.8	188	0.0	1.0	0.483
189	180	189	0.0	1.0	0.5	55.0	-51.4	-8.9	52.2	189	0.0	1.0	0.5
191	181	190	0.0	1.0	0.516	55.0	-50.6	-10.0	51.7	191	0.0	1.0	0.517
193	182	191	0.0	1.0	0.533	55.1	-49.7	-12.1	51.2	193	0.0	1.0	0.533
195	183	192	0.0	1.0	0.55	55.1	-48.8	-13.7	50.7	195	0.0	1.0	0.55
197	184	193	0.0	1.0	0.566	55.2	-47.8	-15.2	50.2	197	0.0	1.0	0.567
199	185	194	0.0	1.0	0.583	55.2	-46.8	-16.6	49.7	199	0.0	1.0	0.583
201	186	195	0.0	1.0	0.6	55.2	-45.8	-18.0	49.2	201	0.0	1.0	0.6
203	187	195	0.0	1.0	0.616	55.3	-44.7	-19.4	48.7	203	0.0	1.0	0.617
205	188	196	0.0	1.0	0.633	55.3	-43.8	-20.5	48.4	205	0.0	1.0	0.633
206	189	197	0.0	1.0	0.65	55.3	-43.3	-21.5	48.3	206	0.0	1.0	0.65
207	190	198	0.0	1.0	0.666	55.3	-42.7	-22.5	48.3	207	0.0	1.0	0.667
209	191	199	0.0	1.0	0.683	55.2	-42.1	-23.4	48.2	209	0.0	1.0	0.683
210	192	200	0.0	1.0	0.7	55.2	-41.5	-24.4	48.1	210	0.0	1.0	0.7
211	193	201	0.0	1.0	0.716	55.2	-40.8	-25.3	48.0	211	0.0	1.0	0.717
213	194	202	0.0	1.0	0.733	55.2	-40.2	-26.2	48.0	213	0.0	1.0	0.733
214	195	203	0.0	1.0	0.75	55.2	-39.5	-27.1	47.9	214	0.0	1.0	0.75
215	196	204	0.0	1.0	0.766	55.1	-39.2	-27.9	48.1	215	0.0	1.0	0.767
216	197	205	0.0	1.0	0.783	55.0	-38.8	-28.7	48.3	216	0.0	1.0	0.783
217	198	206	0.0	1.0	0.8	54.9	-38.5	-29.5	48.5	217	0.0	1.0	0.8
218	199	206	0.0	1.0	0.816	54.8	-38.1	-30.3	48.7	218	0.0	1.0	0.817
219	200	207	0.0	1.0	0.833	54.7	-37.7	-31.1	48.9	219	0.0	1.0	0.833
220	201	208	0.0	1.0	0.85	54.6	-37.3	-31.9	49.1	220	0.0	1.0	0.85
221	202	209	0.0	1.0	0.866	54.5	-36.9	-32.6	49.3	221	0.0	1.0	0.867
222	203	210	0.0	1.0	0.883	54.3	-36.4	-33.7	49.6	222	0.0	1.0	0.883
224	204	211	0.0	1.0	0.9	54.2	-35.6	-35.1	50.0	224	0.0	1.0	0.9
226	205	212	0.0	1.0	0.916	54.0	-34.8	-36.5	50.4	226	0.0	1.0	0.917
228	206	213	0.0	1.0	0.933	53.8	-33.9	-37.8	50.8	228	0.0	1.0	0.933
229	207	214	0.0	1.0	0.95	53.6	-33.0	-39.2	51.2	229	0.0	1.0	0.95
231	208	215	0.0	1.0	0.966	53.4	-32.0	-40.5	51.7	231	0.0	1.0	0.967
233	209	216	0.0	1.0	0.983	53.3	-31.0	-41.8	52.1	233	0.0	1.0	0.983
235	210	216	0.0	1.0	1.0	53.1	-30.0	-43.1	52.5	235	0.0	1.0	1.0

I=1131230-L0 PE990-73 LAB\*lab, YN=0%, XY Znw=3.9, 4.1, 84.7, 89.6, 93.9, LAB\*mnw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

TUB-test chart PE99; hue code: H<sub>e</sub>=R00Ye  
48 step hue circles; rgb-LabCh\*tables

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

Output: Laser printer output; separation cmyk\*, D65, page 13/63

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk\*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; h<sub>abs,d</sub> = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;

Table with columns for device color angles (h<sub>abs,d</sub>), device color separation (LAB\*, dxs361MI, ds361MI), and 60 degree standard color angles (h<sub>abs,d</sub> = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0) for RYGBM separation. The table contains numerical data for each color angle combination.

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

I=1131330-L0 PE990-73 LAB\*ta0, YN=0%, XYZmw=3.9, 4.1, 84.7, 89.6, 93.9, LAB\*mw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0

Output: Laser printer output; separation cmyk\*, D65, page 14/33

http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT /PS; 3D-linearization  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 15/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk\*<sub>s</sub>: D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM;  $h_{ab,d} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
Six hue angles of the device colours RYGBM;  $h_{ab,d} = 33.5, 100.6, 155.5, 225.2, 290.8, 348.9$ ; Six hue angles of the elementary colours RYGBM;  $h_{ab,c} = 25.5, 93.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{ds}$	$rgb^*_{ds361M}$	$LAB^*_d s361M$	$LAB^*_s d s361M$	$LAB^*_e d s361M$	$rgb^*_{ds361MI}$	$LAB^*_e d s361MI$	$LAB^*_s d s361MI$	$LAB^*_d s361MI$	$rgb^*_{ds}$	$rgb^*_{ds361MI}$	$rgb^*_{ds}$	$rgb^*_{ds361MI}$																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
272	255	258	0.0	0.25	1.0	36.8	2.2	-48.5	48.6	272	255	0.0	0.25	1.0	44.2	-10.4	-49.4	50.6	258	0.0	0.25	1.0	0.0	0.449	1.0	44.2	-10.4	-49.4	50.6	258	0.0	0.25	1.0	0.0	0.435	1.0	43.7	-9.5	-49.4	50.4	258	0.0	0.233	1.0	0.0	0.42	1.0	43.1	-8.7	-49.3	50.2	259	0.0	0.217	1.0	0.0	0.405	1.0	42.6	-7.9	-49.3	50.0	260	0.0	0.2	1.0	0.0	0.39	1.0	42.0	-7.1	-49.3	49.9	261	0.0	0.183	1.0	0.0	0.376	1.0	41.4	-6.3	-49.2	49.7	262	0.0	0.167	1.0	0.0	0.364	1.0	41.0	-5.5	-49.2	49.6	263	0.0	0.15	1.0	0.0	0.353	1.0	40.6	-4.7	-49.2	49.5	264	0.0	0.133	1.0	0.0	0.341	1.0	40.2	-3.9	-49.1	49.4	265	0.0	0.117	1.0	0.0	0.33	1.0	39.8	-3.1	-49.1	49.3	266	0.0	0.1	1.0	0.0	0.318	1.0	39.4	-2.3	-49.0	49.2	267	0.0	0.083	1.0	0.0	0.307	1.0	39.0	-1.5	-49.0	49.1	268	0.0	0.067	1.0	0.0	0.296	1.0	38.5	-0.8	-48.9	49.0	269	0.0	0.05	1.0	0.0	0.284	1.0	38.1	0.0	-48.8	48.9	269	0.0	0.033	1.0	0.0	0.273	1.0	37.7	0.7	-48.7	48.8	270	0.0	0.017	1.0	0.0	0.261	1.0	37.3	1.5	-48.6	48.7	271	0.0	0.0	1.0	0.0	0.249	1.0	36.9	2.3	-48.5	48.6	272	0.0	0.017	0.0	1.0	0.0	0.236	1.0	36.7	3.1	-48.3	48.5	273	0.033	0.0	1.0	0.0	0.222	1.0	36.5	3.9	-48.1	48.3	274	0.05	0.0	1.0	0.0	0.209	1.0	36.3	4.6	-47.9	48.2	275	0.067	0.0	1.0	0.0	0.196	1.0	36.1	5.4	-47.7	48.1	276	0.083	0.0	1.0	0.0	0.182	1.0	35.9	6.2	-47.4	47.9	277	0.1	0.0	1.0	0.0	0.169	1.0	35.7	7.0	-47.2	47.8	278	0.117	0.0	1.0	0.0	0.155	1.0	35.5	7.7	-46.9	47.6	279	0.133	0.0	1.0	0.0	0.142	1.0	35.3	8.5	-46.6	47.5	280	0.15	0.0	1.0	0.0	0.129	1.0	35.1	9.2	-46.4	47.4	281	0.167	0.0	1.0	0.0	0.116	1.0	34.9	10.0	-46.2	47.4	282	0.183	0.0	1.0	0.0	0.103	1.0	34.6	10.8	-46.1	47.4	283	0.2	0.0	1.0	0.0	0.09	1.0	34.4	11.5	-45.9	47.4	284	0.217	0.0	1.0	0.0	0.078	1.0	34.1	12.3	-45.8	47.5	285	0.233	0.0	1.0	0.0	0.065	1.0	33.9	13.1	-45.6	47.5	285	0.25	0.0	1.0	0.0	0.052	1.0	33.6	13.8	-45.4	47.6	286	0.267	0.0	1.0	0.0	0.04	1.0	33.4	14.6	-45.2	47.6	287	0.283	0.0	1.0	0.0	0.027	1.0	33.1	15.4	-45.0	47.6	288	0.3	0.0	1.0	0.0	0.014	1.0	32.9	16.1	-44.8	47.7	289	0.317	0.0	1.0	0.0	0.001	1.0	32.6	16.9	-44.5	47.7	290	0.333	0.0	1.0	0.0	0.012	0.0	1.0	32.5	17.6	-44.3	47.8	291	0.35	0.0	1.0	0.0	0.026	0.0	1.0	32.4	18.4	-44.1	47.9	292	0.367	0.0	1.0	0.0	0.041	0.0	1.0	32.3	19.1	-43.9	47.9	293	0.383	0.0	1.0	0.0	0.055	0.0	1.0	32.1	19.9	-43.6	48.0	294	0.4	0.0	1.0	0.0	0.069	0.0	1.0	32.0	20.7	-43.3	48.1	295	0.417	0.0	1.0	0.0	0.083	0.0	1.0	31.9	21.4	-43.1	48.2	296	0.433	0.0	1.0	0.0	0.097	0.0	1.0	31.8	22.2	-42.8	48.2	297	0.45	0.0	1.0	0.0	0.111	0.0	1.0	31.7	22.9	-42.5	48.3	298	0.467	0.0	1.0	0.0	0.125	0.0	1.0	31.6	23.6	-42.1	48.4	299	0.483	0.0	1.0	0.0	0.139	0.0	1.0	31.5	24.4	-41.9	48.6	300	0.5	0.0	1.0	0.0	0.117	0.0	1.0	31.4	25.2	-41.7	48.7	301	0.017	0.0	1.0	0.0	0.097	0.0	1.0	31.3	26.0	-41.5	48.8	302	0.033	0.0	1.0	0.0	0.077	0.0	1.0	31.2	26.8	-41.3	48.9	303	0.05	0.0	1.0	0.0	0.057	0.0	1.0	31.1	27.6	-41.1	49.0	304	0.067	0.0	1.0	0.0	0.037	0.0	1.0	31.0	28.4	-40.9	49.1	305	0.083	0.0	1.0	0.0	0.017	0.0	1.0	30.9	29.2	-40.7	49.2	306	0.1	0.0	1.0	0.0	0.017	0.0	1.0	30.8	30.0	-40.5	49.3	307	0.117	0.0	1.0	0.0	0.016	0.0	1.0	30.7	30.8	-40.3	49.4	308	0.133	0.0	1.0	0.0	0.015	0.0	1.0	30.6	31.6	-40.1	49.5	309	0.15	0.0	1.0	0.0	0.014	0.0	1.0	30.5	32.4	-39.9	49.6	310	0.167	0.0	1.0	0.0	0.013	0.0	1.0	30.4	33.2	-39.7	49.7	311	0.183	0.0	1.0	0.0	0.012	0.0	1.0	30.3	34.0	-39.5	49.8	312	0.2	0.0	1.0	0.0	0.011	0.0	1.0	30.2	34.8	-39.3	49.9	313	0.217	0.0	1.0	0.0	0.01	0.0	1.0	30.1	35.6	-39.1	50.0	314	0.233	0.0	1.0	0.0	0.009	0.0	1.0	30.0	36.4	-38.9	50.1	315	0.25	0.0	1.0	0.0	0.008	0.0	1.0	29.9	37.2	-38.7	50.2	316	0.267	0.0	1.0	0.0	0.007	0.0	1.0	29.8	38.0	-38.5	50.3	317	0.283	0.0	1.0	0.0	0.006	0.0	1.0	29.7	38.8	-38.3	50.4	318	0.3	0.0	1.0	0.0	0.005	0.0	1.0	29.6	39.6	-38.1	50.5	319	0.317	0.0	1.0	0.0	0.004	0.0	1.0	29.5	40.4	-37.9	50.6	320	0.333	0.0	1.0	0.0	0.003	0.0	1.0	29.4	41.2	-37.7	50.7	321	0.35	0.0	1.0	0.0	0.002	0.0	1.0	29.3	42.0	-37.5	50.8	322	0.367	0.0	1.0	0.0	0.001	0.0	1.0	29.2	42.8	-37.3	50.9	323	0.383	0.0	1.0	0.0	0.001	0.0	1.0	29.1	43.6	-37.1	51.0	324	0.4	0.0	1.0	0.0	0.000	0.0	1.0	29.0	44.4	-36.9	51.1	325	0.417	0.0	1.0	0.0	0.000	0.0	1.0	28.9	45.2	-36.7	51.2	326	0.433	0.0	1.0	0.0	0.000	0.0	1.0	28.8	46.0	-36.5	51.3	327	0.45	0.0	1.0	0.0	0.000	0.0	1.0	28.7	46.8	-36.3	51.4	328	0.467	0.0	1.0	0.0	0.000	0.0	1.0	28.6	47.6	-36.1	51.5	329	0.483	0.0	1.0	0.0	0.000	0.0	1.0	28.5	48.4	-35.9	51.6	330	0.5	0.0	1.0	0.0	0.000	0.0	1.0	28.4	49.2	-35.7	51.7	331	0.017	0.0	1.0	0.0	0.000	0.0	1.0	28.3	50.0	-35.5	51.8	332	0.033	0.0	1.0	0.0	0.000	0.0	1.0	28.2	50.8	-35.3	51.9	333	0.05	0.0	1.0	0.0	0.000	0.0	1.0	28.1	51.6	-35.1	52.0	334	0.067	0.0	1.0	0.0	0.000	0.0	1.0	28.0	52.4	-34.9	52.1	335	0.083	0.0	1.0	0.0	0.000	0.0	1.0	27.9	53.2	-34.7	52.2	336	0.1	0.0	1.0	0.0	0.000	0.0	1.0	27.8	54.0	-34.5	52.3	337	0.117	0.0	1.0	0.0	0.000	0.0	1.0	27.7	54.8	-34.3	52.4	338	0.133	0.0	1.0	0.0	0.000	0.0	1.0	27.6	55.6	-34.1	52.5	339	0.15	0.0	1.0	0.0	0.000	0.0	1.0	27.5	56.4	-33.9	52.6	340	0.167	0.0	1.0	0.0	0.000	0.0	1.0	27.4	57.2	-33.7	52.7	341	0.183	0.0	1.0	0.0	0.000	0.0	1.0	27.3	58.0	-33.5	52.8	342	0.2	0.0	1.0	0.0	0.000	0.0	1.0	27.2	58.8	-33.3	52.9	343	0.217	0.0	1.0	0.0	0.000	0.0	1.0	27.1	59.6	-33.1	53.0	344	0.233	0.0	1.0	0.0	0.000	0.0	1.0	27.0	60.4	-32.9	53.1	345	0.25	0.0	1.0	0.0	0.000	0.0	1.0	26.9	61.2	-32.7	53.2	346	0.267	0.0	1.0	0.0	0.000	0.0	1.0	26.8	62.0	-32.5	53.3	347	0.283	0.0	1.0	0.0	0.000	0.0	1.0	26.7	62.8	-32.3	53.4	348	0.3	0.0	1.0	0.0	0.000	0.0	1.0	26.6	63.6	-32.1	53.5	349	0.317	0.0	1.0	0.0	0.000	0.0	1.0	26.5	64.4	-31.9	53.6	350	0.333	0.0	1.0	0.0	0.000	0.0	1.0	26.4	65.2	-31.7	53.7	351	0.35	0.0	1.0	0.0	0.000	0.0	1.0	26.3	66.0	-31.5	53.8	352	0.367	0.0	1.0	0.0	0.000	0.0	1.0	26.2	66.8	-31.3	53.9	353	0.383	0.0	1.0	0.0	0.000	0.0	1.0	26.1	67.6	-31.1	54.0	354	0.4	0.0	1.0	0.0	0.000	0.0	1.0	26.0	68.4	-30.9	54.1	355	0.417	0.0	1.0	0.0	0.000	0.0	1.0	25.9	69.2	-30.7	54.2	356	0.433	0.0	1.0	0.0	0.000	0.0	1.0	25.8	70.0	-30.5	54.3	357	0.45	0.0	1.0	0.0	0.000	0.0	1.0	25.7	70.8	-30.3	54.4	358	0.467	0.0	1.0	0.0	0.000	0.0	1.0	25.6	71.6	-30.1	54.5	359	0.483	0.0	1.0	0.0	0.000	0.0	1.0	25.5	72.4	-29.9	54.6	360	0.5	0.0	1.0	0.0	0.000	0.0	1.0	25.4	73.2	-29.7	54.7	361	0.017	0.0	1.0	0.0	0.000	0.0	1.0	25.3	74.0	-29.5	54.8	362	0.033	0.0	1.0	0.0	0.000	0.0	1.0	25.2	74.8	-29.3	54.9	363	0.05	0.0	1.0	0.0	0.000	0.0	1.0	25.1	75.6	-29.1	55.0	364	0.067	0.0	1.0	0.0	0.000	0.0	1.0	25.0	76.4	-28.9	55.1	365	0.083	0.0	1.0	0.0	0.000	0.0	1.0	24.9	77.2	-28.7	55.2	366	0.1	0.0	1.0	0.0	0.000	0.0	1.0	24.8	78.0	-28.5	55.3	367	0.117	0.0	1.0	0.0	0.000	0.0	1.0	24.7	78.8	-28.3	55.4	



http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT /.PS; 3D-linearization  
 F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 16/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk\*; D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM<sub>d</sub>; h<sub>abs,d</sub> = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;  
 Six hue angles of the device colours RYGBM<sub>d</sub>; h<sub>abs,d</sub> = 33.5, 100.6, 155.5, 225.2, 290.8, 348.9; Six hue angles of the elementary colours RYGBM<sub>e</sub>; h<sub>abs,e</sub> = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6

h <sub>abs,d</sub>	h <sub>abs,s</sub>	h <sub>abs,e</sub>	LAB* <sub>d</sub> s361M	LAB* <sub>s</sub> s361M	LAB* <sub>e</sub> s361M	LAB* <sub>d</sub> ex361M (x=LabCh)	LAB* <sub>s</sub> ex361M (x=LabCh)	LAB* <sub>e</sub> ex361M (x=LabCh)	LAB* <sub>d</sub> de361MI	LAB* <sub>s</sub> de361MI	LAB* <sub>e</sub> de361MI	rgb* <sub>d</sub> de361MI	rgb* <sub>s</sub> de361MI	rgb* <sub>e</sub> de361MI	rgb* <sub>d</sub> dd361MI	rgb* <sub>s</sub> dd361MI	rgb* <sub>e</sub> dd361MI
324	300	300	0.5	0.0	1.0	37.2	43.1	-30.8	53.0	324	300	0.5	0.0	1.0	0.139	0.0	1.0
325	301	301	0.516	0.0	1.0	37.4	43.8	-30.4	53.4	325	301	0.516	0.0	1.0	0.153	0.0	1.0
326	302	302	0.533	0.0	1.0	37.7	44.5	-29.9	53.7	326	302	0.533	0.0	1.0	0.166	0.0	1.0
326	303	303	0.55	0.0	1.0	37.9	45.3	-29.5	54.0	326	303	0.55	0.0	1.0	0.18	0.0	1.0
327	304	304	0.566	0.0	1.0	38.2	46.0	-29.0	54.4	327	304	0.566	0.0	1.0	0.194	0.0	1.0
328	305	305	0.583	0.0	1.0	38.4	46.7	-28.5	54.7	328	305	0.583	0.0	1.0	0.208	0.0	1.0
329	306	306	0.6	0.0	1.0	38.7	47.4	-28.0	55.1	329	306	0.6	0.0	1.0	0.222	0.0	1.0
330	307	307	0.616	0.0	1.0	38.9	48.1	-27.5	55.4	330	307	0.616	0.0	1.0	0.235	0.0	1.0
331	308	308	0.633	0.0	1.0	39.2	48.9	-26.9	55.8	331	308	0.633	0.0	1.0	0.249	0.0	1.0
332	309	309	0.65	0.0	1.0	39.6	49.8	-26.2	56.3	332	309	0.65	0.0	1.0	0.261	0.0	1.0
333	310	310	0.666	0.0	1.0	40.0	50.7	-25.4	56.8	333	310	0.666	0.0	1.0	0.274	0.0	1.0
334	311	311	0.683	0.0	1.0	40.4	51.6	-24.7	57.2	334	311	0.683	0.0	1.0	0.286	0.0	1.0
335	312	312	0.7	0.0	1.0	40.7	52.5	-23.9	57.7	335	312	0.7	0.0	1.0	0.298	0.0	1.0
336	313	313	0.716	0.0	1.0	41.1	53.4	-23.1	58.2	336	313	0.716	0.0	1.0	0.31	0.0	1.0
337	314	314	0.733	0.0	1.0	41.5	54.3	-22.3	58.7	337	314	0.733	0.0	1.0	0.323	0.0	1.0
338	315	315	0.75	0.0	1.0	41.8	55.1	-21.4	59.1	338	315	0.75	0.0	1.0	0.335	0.0	1.0
339	316	316	0.766	0.0	1.0	42.4	55.8	-20.9	59.6	339	316	0.766	0.0	1.0	0.347	0.0	1.0
340	317	317	0.783	0.0	1.0	42.9	56.5	-20.4	60.1	340	317	0.783	0.0	1.0	0.359	0.0	1.0
340	318	318	0.8	0.0	1.0	43.4	57.2	-19.8	60.5	340	318	0.8	0.0	1.0	0.371	0.0	1.0
341	319	319	0.816	0.0	1.0	43.9	57.8	-19.3	61.0	341	319	0.816	0.0	1.0	0.387	0.0	1.0
342	320	320	0.833	0.0	1.0	44.4	58.5	-18.7	61.4	342	320	0.833	0.0	1.0	0.404	0.0	1.0
342	321	321	0.85	0.0	1.0	44.9	59.1	-18.2	61.9	342	321	0.85	0.0	1.0	0.421	0.0	1.0
343	322	322	0.866	0.0	1.0	45.4	59.8	-17.6	62.3	343	322	0.866	0.0	1.0	0.439	0.0	1.0
344	323	323	0.883	0.0	1.0	45.8	60.5	-17.0	62.8	344	323	0.883	0.0	1.0	0.456	0.0	1.0
344	324	324	0.9	0.0	1.0	46.1	61.2	-16.4	63.4	344	324	0.9	0.0	1.0	0.473	0.0	1.0
345	325	325	0.916	0.0	1.0	46.5	61.9	-15.9	63.9	345	325	0.916	0.0	1.0	0.49	0.0	1.0
346	326	326	0.933	0.0	1.0	46.8	62.6	-15.3	64.5	346	326	0.933	0.0	1.0	0.508	0.0	1.0
346	327	327	0.95	0.0	1.0	47.1	63.3	-14.6	65.0	346	327	0.95	0.0	1.0	0.527	0.0	1.0
347	328	328	0.966	0.0	1.0	47.5	64.0	-14.0	65.5	347	328	0.966	0.0	1.0	0.546	0.0	1.0
348	329	329	0.983	0.0	1.0	47.8	64.7	-13.4	66.1	348	329	0.983	0.0	1.0	0.565	0.0	1.0
348	330	328	1.0	0.0	1.0	48.1	65.4	-12.7	66.6	348	330	1.0	0.0	1.0	0.584	0.0	1.0
349	331	329	1.0	0.0	0.983	48.3	65.5	-12.5	66.7	349	331	1.0	0.0	0.983	0.603	0.0	1.0
349	332	330	1.0	0.0	0.966	48.5	65.6	-12.2	66.7	349	332	1.0	0.0	0.967	0.623	0.0	1.0
349	333	331	1.0	0.0	0.95	48.7	65.7	-11.9	66.8	349	333	1.0	0.0	0.95	0.638	0.0	1.0
349	334	332	1.0	0.0	0.933	48.9	65.8	-11.7	66.8	349	334	1.0	0.0	0.933	0.652	0.0	1.0
350	335	333	1.0	0.0	0.916	49.0	65.9	-11.4	66.9	350	335	1.0	0.0	0.917	0.667	0.0	1.0
350	336	334	1.0	0.0	0.9	49.2	66.0	-11.1	66.9	350	336	1.0	0.0	0.9	0.681	0.0	1.0
350	337	335	1.0	0.0	0.883	49.4	66.1	-10.9	67.0	350	337	1.0	0.0	0.883	0.696	0.0	1.0
350	338	336	1.0	0.0	0.866	49.5	66.0	-10.4	66.9	350	338	1.0	0.0	0.867	0.711	0.0	1.0
351	339	337	1.0	0.0	0.85	49.4	65.8	-9.9	66.6	351	339	1.0	0.0	0.85	0.725	0.0	1.0
351	340	338	1.0	0.0	0.833	49.4	65.6	-9.3	66.3	351	340	1.0	0.0	0.833	0.74	0.0	1.0
352	341	339	1.0	0.0	0.816	49.4	65.4	-8.7	66.0	352	341	1.0	0.0	0.817	0.757	0.0	1.0
352	342	339	1.0	0.0	0.8	49.4	65.2	-8.2	65.7	352	342	1.0	0.0	0.8	0.78	0.0	1.0
353	343	340	1.0	0.0	0.783	49.3	65.0	-7.6	65.4	353	343	1.0	0.0	0.783	0.802	0.0	1.0
353	344	341	1.0	0.0	0.766	49.3	64.7	-7.1	65.1	353	344	1.0	0.0	0.767	0.825	0.0	1.0
354	345	342	1.0	0.0	0.75	49.3	64.5	-6.5	64.8	354	345	1.0	0.0	0.75	0.848	0.0	1.0

LAB\*<sub>d</sub>at0, YN=0%, XY,Znw=3.9, 4.1, 84.7, 89.6, 93.9, LAB\*<sub>m</sub>w=23.9, 0.0, 0.0, 95.8, 0.0, 0.0  
 input: rgb/cmyk -> rgbde  
 output: 3D-linearization to cmyk\*de

Output: Laser printer output; separation cmyk6\*, D65, page 16/33



http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT /.PS; 3D-linearization  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 18/33

Table with columns: nrf, HHC\*File, rgb\*File, icr\*File, hsa\*File, rgh\*File, LabC\*File, cmyk\*sep\*File, rgh\*File, hsa\*File, LabC\*File, rgh\*File, hsa\*File, LabC\*File, delta. The table contains 360 rows of data for various color patches.

Mean color difference of this page:

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

TUB-test chart PE99; hue code: H\*e=R00Ye  
colors and differences, ΔE\*

http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT /.PS; 3D-linearization  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 19/33

Table with columns: nuf, HHC\*File, rpb\_Rate, icr\_File, hsa\_Fate, rpb\*File, LabC\*File, cmyk\*\_sep\_Rate, rpb\*File, hsa\*File, LabC\*File, rpb\*File, hsa\*File, LabC\*File, delta. The table contains 45 rows of data for various color patches and registration marks.

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

Mean color difference of this page:

TUB-test chart PE99; hue code: H\*e=R00Ye  
colors and differences, ΔE\*





n	HC*File	rgb*File	LabCH*File	Hsv*File	rgb**File	LabCH**File	cmymk**sep	Delta
162	ROY01_025.025c	0.25	0.25	0.25	0.25	0.25	0.0	0.435
163	ROY01_025.025s	0.25	0.125	0.125	0.0	0.0	0.596	0.728
164	ROY01_025.025m	0.25	0.0	0.0	0.0	0.0	0.581	0.194
165	ROY01_025.025h	0.25	0.125	0.125	0.0	0.0	0.522	0.817
166	ROY01_025.025v	0.25	0.25	0.25	0.0	0.0	0.615	0.256
167	ROY01_025.025d	0.25	0.125	0.125	0.0	0.0	0.704	0.075
168	ROY01_025.025a	0.25	0.25	0.25	0.0	0.0	0.759	0.586
169	ROY01_025.025e	0.25	0.125	0.125	0.0	0.0	0.843	0.415
170	ROY01_025.025f	0.25	0.125	0.125	0.0	0.0	0.865	0.125
171	ROY01_025.025g	0.25	0.125	0.125	0.0	0.0	0.932	0.264
172	ROY01_025.025i	0.25	0.125	0.125	0.0	0.0	1.0	0.323
173	ROY01_025.025j	0.25	0.125	0.125	0.0	0.0	1.0	0.328
174	ROY01_025.025k	0.25	0.125	0.125	0.0	0.0	1.0	0.332
175	ROY01_025.025l	0.25	0.125	0.125	0.0	0.0	1.0	0.336
176	ROY01_025.025m	0.25	0.125	0.125	0.0	0.0	1.0	0.340
177	ROY01_025.025n	0.25	0.125	0.125	0.0	0.0	1.0	0.344
178	ROY01_025.025o	0.25	0.125	0.125	0.0	0.0	1.0	0.348
179	ROY01_025.025p	0.25	0.125	0.125	0.0	0.0	1.0	0.352
180	ROY01_025.025q	0.25	0.125	0.125	0.0	0.0	1.0	0.356
181	ROY01_025.025r	0.25	0.125	0.125	0.0	0.0	1.0	0.360
182	ROY01_025.025s	0.25	0.125	0.125	0.0	0.0	1.0	0.364
183	ROY01_025.025t	0.25	0.125	0.125	0.0	0.0	1.0	0.368
184	ROY01_025.025u	0.25	0.125	0.125	0.0	0.0	1.0	0.372
185	ROY01_025.025v	0.25	0.125	0.125	0.0	0.0	1.0	0.376
186	ROY01_025.025w	0.25	0.125	0.125	0.0	0.0	1.0	0.380
187	ROY01_025.025x	0.25	0.125	0.125	0.0	0.0	1.0	0.384
188	ROY01_025.025y	0.25	0.125	0.125	0.0	0.0	1.0	0.388
189	ROY01_025.025z	0.25	0.125	0.125	0.0	0.0	1.0	0.392
190	ROY01_025.025aa	0.25	0.125	0.125	0.0	0.0	1.0	0.396
191	ROY01_025.025ab	0.25	0.125	0.125	0.0	0.0	1.0	0.400
192	ROY01_025.025ac	0.25	0.125	0.125	0.0	0.0	1.0	0.404
193	ROY01_025.025ad	0.25	0.125	0.125	0.0	0.0	1.0	0.408
194	ROY01_025.025ae	0.25	0.125	0.125	0.0	0.0	1.0	0.412
195	ROY01_025.025af	0.25	0.125	0.125	0.0	0.0	1.0	0.416
196	ROY01_025.025ag	0.25	0.125	0.125	0.0	0.0	1.0	0.420
197	ROY01_025.025ah	0.25	0.125	0.125	0.0	0.0	1.0	0.424
198	ROY01_025.025ai	0.25	0.125	0.125	0.0	0.0	1.0	0.428
199	ROY01_025.025aj	0.25	0.125	0.125	0.0	0.0	1.0	0.432
200	ROY01_025.025ak	0.25	0.125	0.125	0.0	0.0	1.0	0.436
201	ROY01_025.025al	0.25	0.125	0.125	0.0	0.0	1.0	0.440
202	ROY01_025.025am	0.25	0.125	0.125	0.0	0.0	1.0	0.444
203	ROY01_025.025an	0.25	0.125	0.125	0.0	0.0	1.0	0.448
204	ROY01_025.025ao	0.25	0.125	0.125	0.0	0.0	1.0	0.452
205	ROY01_025.025ap	0.25	0.125	0.125	0.0	0.0	1.0	0.456
206	ROY01_025.025aq	0.25	0.125	0.125	0.0	0.0	1.0	0.460
207	ROY01_025.025ar	0.25	0.125	0.125	0.0	0.0	1.0	0.464
208	ROY01_025.025as	0.25	0.125	0.125	0.0	0.0	1.0	0.468
209	ROY01_025.025at	0.25	0.125	0.125	0.0	0.0	1.0	0.472
210	ROY01_025.025au	0.25	0.125	0.125	0.0	0.0	1.0	0.476
211	ROY01_025.025av	0.25	0.125	0.125	0.0	0.0	1.0	0.480
212	ROY01_025.025aw	0.25	0.125	0.125	0.0	0.0	1.0	0.484
213	ROY01_025.025ax	0.25	0.125	0.125	0.0	0.0	1.0	0.488
214	ROY01_025.025ay	0.25	0.125	0.125	0.0	0.0	1.0	0.492
215	ROY01_025.025az	0.25	0.125	0.125	0.0	0.0	1.0	0.496
216	ROY01_025.025ba	0.25	0.125	0.125	0.0	0.0	1.0	0.500
217	ROY01_025.025bb	0.25	0.125	0.125	0.0	0.0	1.0	0.504
218	ROY01_025.025bc	0.25	0.125	0.125	0.0	0.0	1.0	0.508
219	ROY01_025.025bd	0.25	0.125	0.125	0.0	0.0	1.0	0.512
220	ROY01_025.025be	0.25	0.125	0.125	0.0	0.0	1.0	0.516
221	ROY01_025.025bf	0.25	0.125	0.125	0.0	0.0	1.0	0.520
222	ROY01_025.025bg	0.25	0.125	0.125	0.0	0.0	1.0	0.524
223	ROY01_025.025bh	0.25	0.125	0.125	0.0	0.0	1.0	0.528
224	ROY01_025.025bi	0.25	0.125	0.125	0.0	0.0	1.0	0.532
225	ROY01_025.025bj	0.25	0.125	0.125	0.0	0.0	1.0	0.536
226	ROY01_025.025bk	0.25	0.125	0.125	0.0	0.0	1.0	0.540
227	ROY01_025.025bl	0.25	0.125	0.125	0.0	0.0	1.0	0.544
228	ROY01_025.025bm	0.25	0.125	0.125	0.0	0.0	1.0	0.548
229	ROY01_025.025bn	0.25	0.125	0.125	0.0	0.0	1.0	0.552
230	ROY01_025.025bo	0.25	0.125	0.125	0.0	0.0	1.0	0.556
231	ROY01_025.025bp	0.25	0.125	0.125	0.0	0.0	1.0	0.560
232	ROY01_025.025bq	0.25	0.125	0.125	0.0	0.0	1.0	0.564
233	ROY01_025.025br	0.25	0.125	0.125	0.0	0.0	1.0	0.568
234	ROY01_025.025bs	0.25	0.125	0.125	0.0	0.0	1.0	0.572
235	ROY01_025.025bt	0.25	0.125	0.125	0.0	0.0	1.0	0.576
236	ROY01_025.025bu	0.25	0.125	0.125	0.0	0.0	1.0	0.580
237	ROY01_025.025bv	0.25	0.125	0.125	0.0	0.0	1.0	0.584
238	ROY01_025.025bw	0.25	0.125	0.125	0.0	0.0	1.0	0.588
239	ROY01_025.025bx	0.25	0.125	0.125	0.0	0.0	1.0	0.592
240	ROY01_025.025by	0.25	0.125	0.125	0.0	0.0	1.0	0.596
241	ROY01_025.025bz	0.25	0.125	0.125	0.0	0.0	1.0	0.600
242	ROY01_025.025ca	0.25	0.125	0.125	0.0	0.0	1.0	0.604

http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT /.PS; 3D-linearization  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 23/33

Table with 32 columns: n, HHC\*File, rpb\*File, icr\*File, hsa\*File, rpb\*File, LabCM\*File, cmyk\*sep, rpb\*File, hsa\*File, LabCM\*File, delta. The table contains 32 rows of data for various color patches, including colorimetric and colorimetric differences.

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

TUB-test chart PE99; hue code: H\*e=R00Ye  
colors and differences, ΔE\*

I-113220-F0



http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT /.PS; 3D-linearization  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 24/33

n	HC*File	rgb*File	int*File	hsa*File	rgb*File	LabC*File	cmyk*sep*File	hsa*File	rgb*File	LabC*File	delta
324	R00Y_050.050a	0.5	0.0	0.5	0.5	35.7	28.0	0.131	35.7	28.0	0.131
325	R00Y_050.050b	0.5	0.0	0.5	0.5	35.8	28.1	0.132	35.8	28.1	0.132
326	R00Y_050.050c	0.5	0.0	0.5	0.5	35.9	28.2	0.133	35.9	28.2	0.133
327	B61R_050.050a	0.5	0.0	0.5	0.5	36.0	28.3	0.134	36.0	28.3	0.134
328	B61R_050.050b	0.5	0.0	0.5	0.5	36.1	28.4	0.135	36.1	28.4	0.135
329	B40R_062.062a	0.5	0.0	0.625	0.625	31.1	23.3	0.311	31.1	23.3	0.311
330	B40R_062.062b	0.5	0.0	0.625	0.625	31.2	23.4	0.312	31.2	23.4	0.312
331	B23R_087.087a	0.5	0.0	0.875	0.875	29.9	24.6	0.287	29.9	24.6	0.287
332	B23R_087.087b	0.5	0.0	0.875	0.875	30.0	24.7	0.288	30.0	24.7	0.288
333	R23Y_100.100a	0.5	0.0	1.0	1.0	27.2	25.4	0.272	27.2	25.4	0.272
334	R23Y_100.100b	0.5	0.0	1.0	1.0	27.3	25.5	0.273	27.3	25.5	0.273
335	R18Y_050.037a	0.5	0.125	0.5	0.5	41.8	22.9	0.418	41.8	22.9	0.418
336	B63R_050.037a	0.5	0.125	0.5	0.5	41.9	23.0	0.419	41.9	23.0	0.419
337	B63R_050.037b	0.5	0.125	0.5	0.5	42.0	23.1	0.420	42.0	23.1	0.420
338	B38R_062.062a	0.5	0.125	0.625	0.625	37.6	18.6	0.376	37.6	18.6	0.376
339	B38R_062.062b	0.5	0.125	0.625	0.625	37.7	18.7	0.377	37.7	18.7	0.377
340	B25R_087.050a	0.5	0.125	0.875	0.875	40.0	18.0	0.400	40.0	18.0	0.400
341	B25R_087.050b	0.5	0.125	0.875	0.875	40.1	18.1	0.401	40.1	18.1	0.401
342	R50Y_050.050a	0.5	0.25	0.5	0.5	31.9	24.4	0.319	31.9	24.4	0.319
343	R50Y_050.050b	0.5	0.25	0.5	0.5	32.0	24.5	0.320	32.0	24.5	0.320
344	R00Y_050.025a	0.5	0.25	0.5	0.5	33.3	30.6	0.333	33.3	30.6	0.333
345	R00Y_050.025b	0.5	0.25	0.5	0.5	33.4	30.7	0.334	33.4	30.7	0.334
346	B50R_062.025a	0.5	0.25	0.625	0.625	28.5	30.6	0.285	28.5	30.6	0.285
347	B50R_062.025b	0.5	0.25	0.625	0.625	28.6	30.7	0.286	28.6	30.7	0.286
348	B38R_062.025a	0.5	0.25	0.625	0.625	28.7	30.8	0.287	28.7	30.8	0.287
349	B38R_062.025b	0.5	0.25	0.625	0.625	28.8	30.9	0.288	28.8	30.9	0.288
350	B18R_100.057a	0.5	0.25	1.0	1.0	27.2	25.4	0.272	27.2	25.4	0.272
351	B18R_100.057b	0.5	0.25	1.0	1.0	27.3	25.5	0.273	27.3	25.5	0.273
352	R68Y_050.037a	0.5	0.375	0.5	0.5	48.0	17.1	0.480	48.0	17.1	0.480
353	R68Y_050.037b	0.5	0.375	0.5	0.5	48.1	17.2	0.481	48.1	17.2	0.481
354	R00Y_050.012a	0.5	0.375	0.5	0.5	53.8	8.8	0.538	53.8	8.8	0.538
355	R00Y_050.012b	0.5	0.375	0.5	0.5	53.9	8.9	0.539	53.9	8.9	0.539
356	B25R_062.025a	0.5	0.375	0.625	0.625	52.6	5.8	0.526	52.6	5.8	0.526
357	B18R_075.037a	0.5	0.375	0.75	0.75	33.0	44.8	0.330	33.0	44.8	0.330
358	B18R_075.037b	0.5	0.375	0.75	0.75	33.1	44.9	0.331	33.1	44.9	0.331
359	B09R_100.062a	0.5	0.375	1.0	1.0	26.2	58.2	0.262	26.2	58.2	0.262
360	B09R_100.062b	0.5	0.375	1.0	1.0	26.3	58.3	0.263	26.3	58.3	0.263
361	Y00G_050.057a	0.5	0.5	0.5	0.5	53.7	1.5	0.537	53.7	1.5	0.537
362	Y00G_050.057b	0.5	0.5	0.5	0.5	53.8	1.6	0.538	53.8	1.6	0.538
363	Y00G_050.012a	0.5	0.5	0.5	0.5	60.0	0.0	0.600	60.0	0.0	0.600
364	NW_050a	0.5	0.5	0.5	0.5	59.8	0.0	0.598	59.8	0.0	0.598
365	B00R_062.012a	0.5	0.625	0.625	0.625	27.0	61.5	0.270	27.0	61.5	0.270
366	B00R_062.012b	0.5	0.625	0.625	0.625	27.1	61.6	0.271	27.1	61.6	0.271
367	B00R_087.037a	0.5	0.5	0.875	0.875	37.6	64.8	0.376	37.6	64.8	0.376
368	B00R_100.050a	0.5	0.5	1.0	1.0	26.5	65.0	0.265	26.5	65.0	0.265
369	Y18G_062.062a	0.5	0.625	0.625	0.625	104	4.73	0.104	104	4.73	0.104
370	Y23G_062.025a	0.5	0.625	0.625	0.625	104	4.73	0.104	104	4.73	0.104
371	Y31G_062.037a	0.5	0.625	0.625	0.625	104	4.73	0.104	104	4.73	0.104
372	Y50G_062.025a	0.5	0.625	0.625	0.625	104	4.73	0.104	104	4.73	0.104
373	G00B_062.012a	0.5	0.625	0.625	0.625	150	0.5	0.150	150	0.5	0.150
374	G50B_062.012a	0.5	0.625	0.625	0.625	150	0.5	0.150	150	0.5	0.150
375	G50B_062.012b	0.5	0.625	0.625	0.625	150	0.5	0.150	150	0.5	0.150
376	G50B_087.037a	0.5	0.625	0.875	0.875	150	0.5	0.150	150	0.5	0.150
377	G88B_100.050a	0.5	0.625	1.0	1.0	100	0.5	0.100	100	0.5	0.100
378	Y31G_075.057a	0.5	0.75	0.75	0.75	25.6	60.0	0.256	25.6	60.0	0.256
379	Y38G_075.062a	0.5	0.75	0.75	0.75	25.7	60.1	0.257	25.7	60.1	0.257
380	Y46G_075.057a	0.5	0.75	0.75	0.75	25.8	60.2	0.258	25.8	60.2	0.258
381	Y62G_075.057a	0.5	0.75	0.75	0.75	25.9	60.3	0.259	25.9	60.3	0.259
382	G00B_075.025a	0.5	0.75	0.625	0.625	180	0.5	0.180	180	0.5	0.180
383	G25B_075.025a	0.5	0.75	0.625	0.625	180	0.5	0.180	180	0.5	0.180
384	G50B_075.025a	0.5	0.75	0.625	0.625	180	0.5	0.180	180	0.5	0.180
385	G68B_087.037a	0.5	0.75	0.875	0.875	180	0.5	0.180	180	0.5	0.180
386	G75B_100.050a	0.5	0.75	1.0	1.0	100	0.5	0.100	100	0.5	0.100
387	Y41G_087.087a	0.5	0.875	0.875	0.875	115	4.89	0.115	115	4.89	0.115
388	Y50G_087.057a	0.5	0.875	0.875	0.875	115	4.89	0.115	115	4.89	0.115
389	Y61G_087.062a	0.5	0.875	0.875	0.875	115	4.89	0.115	115	4.89	0.115
390	Y62G_087.057a	0.5	0.875	0.875	0.875	115	4.89	0.115	115	4.89	0.115
391	G00B_087.057a	0.5	0.875	0.875	0.875	169	0.5	0.169	169	0.5	0.169
392	G15B_087.037a	0.5	0.875	0.875	0.875	169	0.5	0.169	169	0.5	0.169
393	G34B_087.037a	0.5	0.875	0.875	0.875	169	0.5	0.169	169	0.5	0.169
394	G50B_087.057a	0.5	0.875	0.875	0.875	169	0.5	0.169	169	0.5	0.169
395	G61B_100.050a	0.5	0.875	1.0	1.0	100	0.5	0.100	100	0.5	0.100
396	Y50G_100.087a	0.5	1.0	1.0	1.0	0.5	125	0.005	0.5	125	0.005
397	Y58G_100.087a	0.5	1.0	1.0	1.0	0.5	125	0.005	0.5	125	0.005
398	Y81G_100.075a	0.5	1.0	1.0	1.0	0.5	125	0.005	0.5	125	0.005
399	Y81G_100.062a	0.5	1.0	1.0	1.0	0.5	125	0.005	0.5	125	0.005
400	G00B_100.050a	0.5	1.0	1.0	1.0	0.5	125	0.005	0.5	125	0.005
401	G11B_100.050a	0.5	1.0	1.0	1.0	0.5	125	0.005	0.5	125	0.005
402	G38B_100.050a	0.5	1.0	1.0	1.0	0.5	125	0.005	0.5	125	0.005
403	G50B_100.050a	0.5	1.0	1.0	1.0	0.5	125	0.005	0.5	125	0.005
404	G50B_100.050b	0.5	1.0	1.0	1.0	0.5	125	0.005	0.5	125	0.005

Mean color difference of this page:

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

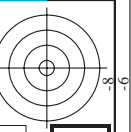
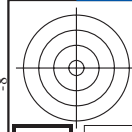


Table with columns: n, HHC\*File, rgb\*File, icr\*File, hsa\*File, rgb\*File, LabCIE\*File, cmyk\*sep\*Rate, hsa\*File, rgb\*File, LabCIE\*File, delta. Contains registration data for various color patches.

http://130.149.60.45/~farbmatrik/PE99/PE99LOFA.TXT / PS; 3D-linearization  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 25/33

input: rgb/cmyk -> rgdbde  
output: 3D-linearization to cmyk\*de  
PE990-7N, Page 25/33-F  
TUB-test chart PE99; hue code: H\*e=R00Ye  
colors and differences, ΔE\*

Table with columns: n, HHC\*File, rgb\*File, icr\*File, Hsa\*File, rgb\*File, LabCM\*File, 20.0, 46.5, 25.4, cmyk\*sep, File, LabCM\*File, Hsa\*File, rgb\*File, LabCM\*File, 25.4, 46.5, 25.4, delta. The table contains a large grid of numerical data representing color calibration parameters.

input: rgb/cmyk -> rgbdelta output: 3D-linearization to cmyk\*de

Mean color difference of this page: 2.16

PE990-7N, Page:26/33-F

TUB-test chart PE99; hue code: H\*e=R00Ye colors and differences, AE\*'

I-1132530-F0 I-1132530-F0

http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT /.PS; 3D-linearization  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 27/33

Table with 17 columns: n, H#C\*File, rgb\*File, LabC\*File, H#s\*File, rgb\*File, LabC\*File, cmyk\*sep, H#s\*File, rgb\*File, LabC\*File, H#s\*File, rgb\*File, LabC\*File, H#s\*File, rgb\*File, LabC\*File. Rows 567-647.

Mean color difference of this page: delta

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

http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT / PS; 3D-linearization  
 F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 28/33

n	HC*File	rgb*File	Lab*File	LabCM*File	cmym*sep*File	rgb*File	Lab*File	LabCM*File	delta
648	R00Y_100_100de	1.0 0.0 0.0	47.5 56.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	47.5 56.0	0.0 0.0	25.4 0.0
649	R38Y_100_176de	1.0 0.0 0.0	392.0 17.6	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	392.0 17.6	0.0 0.0	62.1 0.0
650	R13Y_100_100de	1.0 0.0 0.0	47.5 56.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	47.5 56.0	0.0 0.0	26.7 0.0
651	R13Y_100_100de	1.0 0.0 0.0	47.5 56.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	47.5 56.0	0.0 0.0	62.1 0.0
652	R00Y_100_100de	1.0 0.0 0.0	47.5 56.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	47.5 56.0	0.0 0.0	17.6 0.0
653	B68R_100_100de	1.0 0.0 0.0	68.8 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	68.8 0.0	0.0 0.0	62.1 0.0
654	B68R_100_100de	1.0 0.0 0.0	68.8 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	68.8 0.0	0.0 0.0	62.1 0.0
655	B55R_100_100de	1.0 0.0 0.0	55.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	55.0 0.0	0.0 0.0	62.1 0.0
656	B50R_100_100de	1.0 0.0 0.0	50.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	50.0 0.0	0.0 0.0	62.1 0.0
657	R11Y_100_100de	1.0 0.0 0.0	11.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	11.0 0.0	0.0 0.0	62.1 0.0
658	R00Y_100_087de	1.0 0.0 0.0	0.0 87.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 87.5	0.0 0.0	62.1 0.0
659	R36Y_100_087de	1.0 0.0 0.0	36.0 87.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	36.0 87.5	0.0 0.0	62.1 0.0
660	R23Y_100_087de	1.0 0.0 0.0	23.0 87.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	23.0 87.5	0.0 0.0	62.1 0.0
661	R08Y_100_087de	1.0 0.0 0.0	8.0 87.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	8.0 87.5	0.0 0.0	62.1 0.0
662	B70R_100_087de	1.0 0.0 0.0	70.0 87.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	70.0 87.5	0.0 0.0	62.1 0.0
663	B63R_100_087de	1.0 0.0 0.0	63.0 87.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	63.0 87.5	0.0 0.0	62.1 0.0
664	B56R_100_087de	1.0 0.0 0.0	56.0 87.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	56.0 87.5	0.0 0.0	62.1 0.0
665	B50R_100_087de	1.0 0.0 0.0	50.0 87.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	50.0 87.5	0.0 0.0	62.1 0.0
666	R23Y_100_087de	1.0 0.0 0.0	23.0 87.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	23.0 87.5	0.0 0.0	62.1 0.0
667	R13Y_100_087de	1.0 0.0 0.0	13.0 87.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	13.0 87.5	0.0 0.0	62.1 0.0
668	R00Y_100_075de	1.0 0.0 0.0	0.0 75.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 75.0	0.0 0.0	62.1 0.0
669	R33Y_100_075de	1.0 0.0 0.0	33.0 75.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	33.0 75.0	0.0 0.0	62.1 0.0
670	R18Y_100_075de	1.0 0.0 0.0	18.0 75.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	18.0 75.0	0.0 0.0	62.1 0.0
671	R00Y_100_075de	1.0 0.0 0.0	0.0 75.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 75.0	0.0 0.0	62.1 0.0
672	B63R_100_075de	1.0 0.0 0.0	63.0 75.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	63.0 75.0	0.0 0.0	62.1 0.0
673	B58R_100_075de	1.0 0.0 0.0	58.0 75.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	58.0 75.0	0.0 0.0	62.1 0.0
674	B53R_100_075de	1.0 0.0 0.0	53.0 75.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	53.0 75.0	0.0 0.0	62.1 0.0
675	R36Y_100_087de	1.0 0.0 0.0	36.0 87.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	36.0 87.5	0.0 0.0	62.1 0.0
676	R36Y_100_087de	1.0 0.0 0.0	36.0 87.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	36.0 87.5	0.0 0.0	62.1 0.0
677	R15Y_100_075de	1.0 0.0 0.0	15.0 75.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	15.0 75.0	0.0 0.0	62.1 0.0
678	R00Y_100_062de	1.0 0.0 0.0	0.0 62.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 62.5	0.0 0.0	62.1 0.0
679	R31Y_100_062de	1.0 0.0 0.0	31.0 62.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	31.0 62.5	0.0 0.0	62.1 0.0
680	R19Y_100_062de	1.0 0.0 0.0	19.0 62.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	19.0 62.5	0.0 0.0	62.1 0.0
681	B69R_100_062de	1.0 0.0 0.0	69.0 62.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	69.0 62.5	0.0 0.0	62.1 0.0
682	B69R_100_062de	1.0 0.0 0.0	69.0 62.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	69.0 62.5	0.0 0.0	62.1 0.0
683	B50Y_100_062de	1.0 0.0 0.0	50.0 62.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	50.0 62.5	0.0 0.0	62.1 0.0
684	R50Y_100_062de	1.0 0.0 0.0	50.0 62.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	50.0 62.5	0.0 0.0	62.1 0.0
685	R41Y_100_087de	1.0 0.0 0.0	41.0 87.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	41.0 87.5	0.0 0.0	62.1 0.0
686	R31Y_100_075de	1.0 0.0 0.0	31.0 75.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	31.0 75.0	0.0 0.0	62.1 0.0
687	R18Y_100_062de	1.0 0.0 0.0	18.0 62.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	18.0 62.5	0.0 0.0	62.1 0.0
688	R00Y_100_050de	1.0 0.0 0.0	0.0 50.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 50.0	0.0 0.0	62.1 0.0
689	R26Y_100_050de	1.0 0.0 0.0	26.0 50.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	26.0 50.0	0.0 0.0	62.1 0.0
690	R16Y_100_050de	1.0 0.0 0.0	16.0 50.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	16.0 50.0	0.0 0.0	62.1 0.0
691	B61R_100_050de	1.0 0.0 0.0	61.0 50.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	61.0 50.0	0.0 0.0	62.1 0.0
692	B50R_100_050de	1.0 0.0 0.0	50.0 50.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	50.0 50.0	0.0 0.0	62.1 0.0
693	R63Y_100_100de	1.0 0.0 0.0	63.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	63.0 0.0	0.0 0.0	62.1 0.0
694	R38Y_100_100de	1.0 0.0 0.0	38.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	38.0 0.0	0.0 0.0	62.1 0.0
695	R38Y_100_075de	1.0 0.0 0.0	38.0 75.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	38.0 75.0	0.0 0.0	62.1 0.0
696	R38Y_100_062de	1.0 0.0 0.0	38.0 62.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	38.0 62.5	0.0 0.0	62.1 0.0
697	R23Y_100_050de	1.0 0.0 0.0	23.0 50.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	23.0 50.0	0.0 0.0	62.1 0.0
698	R00Y_100_037de	1.0 0.0 0.0	0.0 37.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 37.5	0.0 0.0	62.1 0.0
699	R18Y_100_037de	1.0 0.0 0.0	18.0 37.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	18.0 37.5	0.0 0.0	62.1 0.0
700	B50R_100_037de	1.0 0.0 0.0	50.0 37.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	50.0 37.5	0.0 0.0	62.1 0.0
701	R61Y_100_100de	1.0 0.0 0.0	61.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	61.0 0.0	0.0 0.0	62.1 0.0
702	R61Y_100_087de	1.0 0.0 0.0	61.0 87.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	61.0 87.5	0.0 0.0	62.1 0.0
703	R33Y_100_087de	1.0 0.0 0.0	33.0 87.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	33.0 87.5	0.0 0.0	62.1 0.0
704	R33Y_100_075de	1.0 0.0 0.0	33.0 75.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	33.0 75.0	0.0 0.0	62.1 0.0
705	R33Y_100_062de	1.0 0.0 0.0	33.0 62.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	33.0 62.5	0.0 0.0	62.1 0.0
706	B50Y_100_050de	1.0 0.0 0.0	50.0 50.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	50.0 50.0	0.0 0.0	62.1 0.0
707	R31Y_100_037de	1.0 0.0 0.0	31.0 37.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	31.0 37.5	0.0 0.0	62.1 0.0
708	R00Y_100_025de	1.0 0.0 0.0	0.0 25.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 25.0	0.0 0.0	62.1 0.0
709	R50R_100_025de	1.0 0.0 0.0	50.0 25.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	50.0 25.0	0.0 0.0	62.1 0.0
710	R88Y_100_100de	1.0 0.0 0.0	88.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	88.0 0.0	0.0 0.0	62.1 0.0
711	R88Y_100_100de	1.0 0.0 0.0	88.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	88.0 0.0	0.0 0.0	62.1 0.0
712	R85Y_100_087de	1.0 0.0 0.0	85.0 87.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	85.0 87.5	0.0 0.0	62.1 0.0
713	R85Y_100_075de	1.0 0.0 0.0	85.0 75.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	85.0 75.0	0.0 0.0	62.1 0.0
714	R81Y_100_062de	1.0 0.0 0.0	81.0 62.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	81.0 62.5	0.0 0.0	62.1 0.0
715	R76Y_100_050de	1.0 0.0 0.0	76.0 50.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	76.0 50.0	0.0 0.0	62.1 0.0
716	R68Y_100_037de	1.0 0.0 0.0	68.0 37.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	68.0 37.5	0.0 0.0	62.1 0.0
717	R50Y_100_025de	1.0 0.0 0.0	50.0 25.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	50.0 25.0	0.0 0.0	62.1 0.0
718	R00Y_100_012de	1.0 0.0 0.0	0.0 12.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 12.5	0.0 0.0	62.1 0.0
719	B50R_100_012de	1.0 0.0 0.0	50.0 12.5	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	50.0 12.5	0.0 0.0	62.1 0.0
720	Y00G_100_100de	1.0 0.0 1.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0	62.1 0.0
721	Y00G_100_087de	1.0 0.0 1.0	0.0 87.5 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 87.5 0.0	0.0 0.0	62.1 0.0
722	Y00G_100_075de	1.0 0.0 1.0	0.0 75.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 75.0 0.0	0.0 0.0	62.1 0.0
723	Y00G_100_062de	1.0 0.0 1.0	0.0 62.5 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.0 62.5 0.0</		

http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT /.PS; 3D-linearization  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 29/33

n	HC*File	rgb*File	Lab*File	LabCM*File	cmyn*sep*File	rgb*File	rgbM*File	rgb*File	LabCM*File	delta
729	NW_1000k	0.875	1.0	1.0	0.0	0.0	1.0	1.0	95.8	0.0
730	GS0B_100.012de	0.875	1.0	1.0	0.0	0.093	1.0	1.0	54.9	0.0
731	GS0B_100.025de	0.75	1.0	1.0	0.0	0.061	1.0	1.0	54.9	0.0
732	GS0B_100.037de	0.625	1.0	1.0	0.0	0.095	1.0	1.0	54.9	0.0
733	GS0B_100.050de	0.5	1.0	1.0	0.0	0.132	1.0	1.0	54.9	0.0
734	GS0B_100.062de	0.375	1.0	1.0	0.0	0.173	1.0	1.0	54.9	0.0
735	GS0B_100.075de	0.25	1.0	1.0	0.0	0.213	1.0	1.0	54.9	0.0
736	GS0B_100.087de	0.125	1.0	1.0	0.0	0.174	1.0	1.0	54.9	0.0
737	GS0B_100.100de	0.0	1.0	1.0	0.0	0.2	1.0	1.0	54.9	0.0
738	ROXY_100.012de	0.875	1.0	1.0	0.0	0.175	1.0	1.0	54.9	0.0
739	NW_087de	0.875	1.0	1.0	0.0	0.158	1.0	1.0	95.8	0.0
740	GS0B_087.012de	0.75	1.0	1.0	0.0	0.024	1.0	1.0	54.9	0.0
741	GS0B_087.025de	0.625	1.0	1.0	0.0	0.024	1.0	1.0	54.9	0.0
742	GS0B_087.037de	0.5	1.0	1.0	0.0	0.134	1.0	1.0	54.9	0.0
743	GS0B_087.050de	0.375	1.0	1.0	0.0	0.172	1.0	1.0	54.9	0.0
744	GS0B_087.062de	0.25	1.0	1.0	0.0	0.193	1.0	1.0	54.9	0.0
745	GS0B_087.075de	0.125	1.0	1.0	0.0	0.208	1.0	1.0	54.9	0.0
746	GS0B_087.087de	0.0	1.0	1.0	0.0	0.25	1.0	1.0	54.9	0.0
747	ROXY_087.012de	0.875	1.0	1.0	0.0	0.121	1.0	1.0	54.9	0.0
748	ROXY_087.025de	0.75	1.0	1.0	0.0	0.161	1.0	1.0	54.9	0.0
749	NW_075de	0.75	1.0	1.0	0.0	0.015	1.0	1.0	95.8	0.0
750	GS0B_075.012de	0.625	1.0	1.0	0.0	0.029	1.0	1.0	54.9	0.0
751	GS0B_075.025de	0.5	1.0	1.0	0.0	0.033	1.0	1.0	54.9	0.0
752	GS0B_075.037de	0.375	1.0	1.0	0.0	0.095	1.0	1.0	54.9	0.0
753	GS0B_075.050de	0.25	1.0	1.0	0.0	0.138	1.0	1.0	54.9	0.0
754	GS0B_075.062de	0.125	1.0	1.0	0.0	0.176	1.0	1.0	54.9	0.0
755	GS0B_075.075de	0.0	1.0	1.0	0.0	0.194	1.0	1.0	54.9	0.0
756	ROXY_075.012de	0.875	1.0	1.0	0.0	0.307	1.0	1.0	54.9	0.0
757	ROXY_075.025de	0.75	1.0	1.0	0.0	0.307	1.0	1.0	54.9	0.0
758	ROXY_075.037de	0.625	1.0	1.0	0.0	0.306	1.0	1.0	54.9	0.0
759	NW_062de	0.625	1.0	1.0	0.0	0.302	1.0	1.0	95.8	0.0
760	GS0B_062.012de	0.5	1.0	1.0	0.0	0.15	1.0	1.0	54.9	0.0
761	GS0B_062.025de	0.375	1.0	1.0	0.0	0.028	1.0	1.0	54.9	0.0
762	GS0B_062.037de	0.25	1.0	1.0	0.0	0.063	1.0	1.0	54.9	0.0
763	GS0B_062.050de	0.125	1.0	1.0	0.0	0.059	1.0	1.0	54.9	0.0
764	GS0B_062.062de	0.0	1.0	1.0	0.0	0.117	1.0	1.0	54.9	0.0
765	ROXY_062.012de	0.875	1.0	1.0	0.0	0.478	1.0	1.0	54.9	0.0
766	ROXY_062.025de	0.75	1.0	1.0	0.0	0.475	1.0	1.0	54.9	0.0
767	ROXY_062.037de	0.625	1.0	1.0	0.0	0.156	1.0	1.0	54.9	0.0
768	ROXY_062.050de	0.5	1.0	1.0	0.0	0.201	1.0	1.0	54.9	0.0
769	NW_050de	0.5	1.0	1.0	0.0	0.219	1.0	1.0	95.8	0.0
770	GS0B_050.012de	0.375	1.0	1.0	0.0	0.499	1.0	1.0	54.9	0.0
771	GS0B_050.025de	0.25	1.0	1.0	0.0	0.433	1.0	1.0	54.9	0.0
772	GS0B_050.037de	0.125	1.0	1.0	0.0	0.348	1.0	1.0	54.9	0.0
773	GS0B_050.050de	0.0	1.0	1.0	0.0	0.221	1.0	1.0	54.9	0.0
774	ROXY_050.012de	0.875	1.0	1.0	0.0	0.059	1.0	1.0	54.9	0.0
775	ROXY_050.025de	0.75	1.0	1.0	0.0	0.052	1.0	1.0	54.9	0.0
776	ROXY_050.037de	0.625	1.0	1.0	0.0	0.337	1.0	1.0	54.9	0.0
777	ROXY_050.050de	0.5	1.0	1.0	0.0	0.399	1.0	1.0	54.9	0.0
778	NW_037de	0.375	1.0	1.0	0.0	0.254	1.0	1.0	95.8	0.0
779	GS0B_037.012de	0.25	1.0	1.0	0.0	0.026	1.0	1.0	54.9	0.0
780	GS0B_037.025de	0.125	1.0	1.0	0.0	0.095	1.0	1.0	54.9	0.0
781	GS0B_037.037de	0.0	1.0	1.0	0.0	0.152	1.0	1.0	54.9	0.0
782	ROXY_037.012de	0.875	1.0	1.0	0.0	0.199	1.0	1.0	54.9	0.0
783	ROXY_037.025de	0.75	1.0	1.0	0.0	0.087	1.0	1.0	54.9	0.0
784	ROXY_037.037de	0.625	1.0	1.0	0.0	0.446	1.0	1.0	54.9	0.0
785	ROXY_037.050de	0.5	1.0	1.0	0.0	0.428	1.0	1.0	54.9	0.0
786	ROXY_037.062de	0.375	1.0	1.0	0.0	0.432	1.0	1.0	54.9	0.0
787	ROXY_037.075de	0.25	1.0	1.0	0.0	0.44	1.0	1.0	54.9	0.0
788	ROXY_037.087de	0.125	1.0	1.0	0.0	0.333	1.0	1.0	54.9	0.0
789	NW_025de	0.25	1.0	1.0	0.0	0.262	1.0	1.0	95.8	0.0
790	GS0B_025.012de	0.125	1.0	1.0	0.0	0.082	1.0	1.0	54.9	0.0
791	GS0B_025.025de	0.0	1.0	1.0	0.0	0.103	1.0	1.0	54.9	0.0
792	ROXY_025.012de	0.875	1.0	1.0	0.0	0.163	1.0	1.0	54.9	0.0
793	ROXY_025.025de	0.75	1.0	1.0	0.0	0.056	1.0	1.0	54.9	0.0
794	ROXY_025.037de	0.625	1.0	1.0	0.0	0.527	1.0	1.0	54.9	0.0
795	ROXY_025.050de	0.5	1.0	1.0	0.0	0.745	1.0	1.0	54.9	0.0
796	ROXY_025.062de	0.375	1.0	1.0	0.0	0.705	1.0	1.0	54.9	0.0
797	ROXY_025.075de	0.25	1.0	1.0	0.0	0.617	1.0	1.0	54.9	0.0
798	ROXY_025.087de	0.125	1.0	1.0	0.0	0.323	1.0	1.0	54.9	0.0
799	NW_012de	0.125	1.0	1.0	0.0	0.264	1.0	1.0	95.8	0.0
800	GS0B_012.012de	0.0	1.0	1.0	0.0	0.111	1.0	1.0	54.9	0.0
801	ROXY_012.012de	0.875	1.0	1.0	0.0	0.125	1.0	1.0	54.9	0.0
802	ROXY_012.025de	0.75	1.0	1.0	0.0	0.075	1.0	1.0	54.9	0.0
803	ROXY_012.037de	0.625	1.0	1.0	0.0	0.147	1.0	1.0	54.9	0.0
804	ROXY_012.050de	0.5	1.0	1.0	0.0	0.66	1.0	1.0	54.9	0.0
805	ROXY_012.062de	0.375	1.0	1.0	0.0	0.884	1.0	1.0	54.9	0.0
806	ROXY_012.075de	0.25	1.0	1.0	0.0	0.799	1.0	1.0	54.9	0.0
807	ROXY_012.087de	0.125	1.0	1.0	0.0	0.729	1.0	1.0	54.9	0.0
808	ROXY_012.100de	0.0	1.0	1.0	0.0	0.596	1.0	1.0	54.9	0.0
809	NW_000de	0.0	1.0	1.0	0.0	0.468	1.0	1.0	95.8	0.0

Mean color difference of this page:

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

TUB-test chart PE99; hue code: H\*e=R00Ye  
colors and differences, ΔE\*

Table with 16 columns: n, H#C\*File, rgb\*File, iet\*File, H#s\*File, rgb\*File, LabC\*File, cmyk\*sep, cmyk\*sep, rha4ta, rha4ta, LabC\*File, rha4ta, rha4ta, delta. The table contains 890 rows of data representing color calibration points.

TUB-test chart PE99; hue code: H\*e=R00Ye  
colors and differences, ΔE\*

input: rgb/cmyk -> rha4ta  
output: 3D-linearization to cmyk\*de

Mean color difference of this page:

http://130.149.60.45/~farbmetrik/PE99/PE99LOFA.TXT /.PS; 3D-linearization  
F: 3D-linearization PE99/PE99LE30FA.DAT in file (F), page 31/33

n	HC*File	rgb*File	Lab*File	Lab*File	cmyp*sep*File	rgb*File	Lab*File	rgb*File	Lab*File	delta
891	NW_100.00e	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
892	NW_100.012e	1.0	0.875	1.0	95.8	5.8	88.6	5.8	88.6	0.0
893	B50R_100.025e	1.0	0.75	1.0	84.5	17.6	71.1	13.6	328.6	328.6
894	B50R_100.037e	1.0	0.625	1.0	84.4	6.25	10.5	10.7	20.5	328.6
895	B50R_100.050e	1.0	0.5	1.0	79.2	0.5	67.1	23.3	328.6	328.6
896	B50R_100.062e	1.0	0.375	1.0	0.74	0.375	1.0	17.8	34.2	328.6
897	B50R_100.075e	1.0	0.25	1.0	0.688	0.25	1.0	45.8	35.0	328.6
898	B50R_100.087e	1.0	0.125	1.0	0.636	0.125	1.0	52.6	40.9	328.6
899	B50R_100.100e	1.0	0.0	1.0	0.584	0.0	1.0	38.5	46.7	328.6
900	COB_100.012e	0.875	1.0	1.0	0.875	1.0	0.893	30.5	16.2	162.2
901	NW_087e	0.875	0.875	0.875	0.875	0.875	0.875	86.8	0.0	0.0
902	B50R_087.012e	0.875	0.75	0.875	0.875	0.75	5.8	3.5	6.8	328.6
903	B50R_087.025e	0.875	0.625	0.875	0.875	0.625	17.6	7.1	13.6	328.6
904	B50R_087.037e	0.875	0.5	0.875	0.875	0.5	17.5	10.7	20.5	328.6
905	B50R_087.050e	0.875	0.375	0.875	0.875	0.375	58.1	23.3	328.6	328.6
906	B50R_087.062e	0.875	0.25	0.875	0.875	0.25	17.8	34.2	328.6	328.6
907	B50R_087.075e	0.875	0.125	0.875	0.875	0.125	51.0	29.2	17.8	34.2
908	B50R_087.087e	0.875	0.0	0.875	0.875	0.0	21.4	41.9	328.6	328.6
909	COB_100.025e	0.75	1.0	1.0	0.75	1.0	0.786	85.3	16.4	17.3
910	COB_100.037e	0.75	0.875	1.0	0.75	0.875	77.8	0.0	0.0	0.0
911	B50R_075.012e	0.75	0.75	0.75	0.698	0.625	0.75	70.6	5.8	3.5
912	B50R_075.025e	0.75	0.625	0.75	0.646	0.5	0.75	63.5	11.6	13.6
913	B50R_075.037e	0.75	0.5	0.75	0.584	0.375	0.75	56.3	17.5	10.7
914	B50R_075.050e	0.75	0.375	0.75	0.542	0.25	0.75	49.1	23.3	14.2
915	B50R_075.062e	0.75	0.25	0.75	0.512	0.125	0.75	42.8	29.2	17.8
916	B50R_075.075e	0.75	0.125	0.75	0.48	0.0	0.75	35.8	35.0	17.8
917	B50R_075.087e	0.75	0.0	0.75	0.438	0.0	0.75	28.8	41.9	328.6
918	COB_100.037e	0.625	1.0	1.0	0.625	1.0	0.68	80.0	23.4	25.9
919	COB_100.050e	0.625	0.875	1.0	0.625	0.875	69.1	76.3	16.4	17.3
920	COB_100.062e	0.625	0.75	1.0	0.625	0.75	64.3	72.5	8.2	2.6
921	B50R_062.012e	0.625	0.625	0.625	0.625	0.625	68.8	0.0	0.0	0.0
922	B50R_062.025e	0.625	0.5	0.625	0.573	0.5	62.5	64.6	5.8	3.5
923	B50R_062.037e	0.625	0.375	0.625	0.521	0.375	62.5	54.5	11.6	13.6
924	B50R_062.050e	0.625	0.25	0.625	0.469	0.25	62.5	47.3	17.5	10.7
925	B50R_062.062e	0.625	0.125	0.625	0.417	0.125	62.5	40.1	23.3	14.2
926	COB_100.050e	0.5	1.0	1.0	0.365	0.0	0.625	33.0	29.2	17.8
927	COB_100.062e	0.5	0.875	1.0	0.5	0.875	33.8	32.9	10.5	34.2
928	COB_100.075e	0.5	0.75	1.0	0.5	0.75	30.0	24.7	7.9	25.9
929	COB_100.087e	0.5	0.625	1.0	0.5	0.625	27.3	17.3	16.4	17.3
930	COB_100.100e	0.5	0.5	1.0	0.5	0.5	24.7	8.2	2.6	8.6
931	NW_050e	0.5	0.5	0.5	0.5	0.5	0.5	59.8	0.0	0.0
932	B50R_050.012e	0.5	0.375	0.5	0.448	0.375	0.5	45.6	5.8	3.5
933	B50R_050.025e	0.5	0.25	0.5	0.396	0.249	0.5	42.5	11.6	13.6
934	B50R_050.037e	0.5	0.125	0.5	0.344	0.124	0.5	38.3	17.5	10.7
935	B50R_050.050e	0.5	0.0	0.5	0.292	0.0	0.5	31.1	23.3	14.2
936	COB_100.062e	0.375	1.0	1.0	0.375	1.0	0.466	69.5	41.2	17.3
937	COB_100.075e	0.375	0.875	1.0	0.375	0.875	44.8	44.8	34.6	16.2
938	COB_100.087e	0.375	0.75	1.0	0.375	0.75	40.5	32.9	10.5	34.2
939	COB_100.100e	0.375	0.625	1.0	0.375	0.625	34.2	24.7	7.9	25.9
940	NW_037e	0.375	0.5	0.375	0.375	0.5	39.3	54.5	8.2	2.6
941	NW_050e	0.375	0.375	0.375	0.375	0.375	37.5	50.8	0.0	0.0
942	B50R_037.012e	0.375	0.25	0.375	0.323	0.249	0.375	43.6	5.8	3.5
943	B50R_037.025e	0.375	0.125	0.375	0.271	0.124	0.375	36.5	11.6	13.6
944	B50R_037.037e	0.375	0.0	0.375	0.219	0.0	0.375	29.3	17.5	10.7
945	COB_100.075e	0.25	1.0	1.0	0.25	1.0	0.36	64.3	49.4	15.8
946	COB_100.087e	0.25	0.875	1.0	0.25	0.875	0.341	41.2	35.2	14.2
947	COB_100.100e	0.25	0.75	1.0	0.25	0.75	36.8	32.9	10.5	34.2
948	COB_100.025e	0.25	0.625	1.0	0.25	0.625	30.8	25.9	17.8	34.2
949	COB_100.037e	0.25	0.5	1.0	0.249	0.5	28.8	19.3	14.2	17.3
950	COB_100.050e	0.25	0.375	1.0	0.249	0.375	26.8	14.2	8.6	16.2
951	NW_025e	0.25	0.25	0.25	0.25	0.25	25.9	11.6	13.6	328.6
952	B50R_025.012e	0.25	0.125	0.25	0.198	0.124	0.25	34.6	5.8	3.5
953	B50R_025.025e	0.25	0.0	0.25	0.146	0.0	0.25	27.5	11.6	13.6
954	COB_100.087e	0.125	1.0	1.0	0.125	1.0	0.253	59.0	57.7	18.5
955	COB_100.100e	0.125	0.875	1.0	0.125	0.875	0.235	55.3	49.4	15.8
956	COB_100.025e	0.125	0.75	1.0	0.125	0.75	0.216	51.5	41.2	13.2
957	COB_100.037e	0.125	0.625	1.0	0.125	0.625	0.198	47.0	32.9	10.5
958	COB_100.050e	0.125	0.5	1.0	0.124	0.5	0.18	44.8	24.7	7.9
959	COB_100.062e	0.125	0.375	1.0	0.124	0.375	0.163	40.3	16.4	17.3
960	COB_100.075e	0.125	0.25	1.0	0.124	0.25	0.143	36.5	8.2	2.6
961	NW_012e	0.125	0.125	0.125	0.125	0.125	0.125	32.8	0.0	0.0
962	COB_100.012e	0.125	0.0	0.125	0.073	0.0	0.125	25.6	5.8	3.5
963	COB_100.025e	0.125	0.0	0.125	0.0	0.0	0.125	25.6	5.8	3.5
964	COB_100.037e	0.125	0.0	0.125	0.0	0.0	0.146	53.8	65.9	21.1
965	COB_100.050e	0.125	0.0	0.125	0.0	0.0	0.146	53.8	65.9	21.1
966	COB_100.062e	0.125	0.0	0.125	0.0	0.0	0.146	53.8	65.9	21.1
967	COB_100.075e	0.125	0.0	0.125	0.0	0.0	0.146	53.8	65.9	21.1
968	COB_100.087e	0.125	0.0	0.125	0.0	0.0	0.146	53.8	65.9	21.1
969	COB_100.100e	0.125	0.0	0.125	0.0	0.0	0.146	53.8	65.9	21.1
970	COB_025.025e	0.0	0.25	0.0	0.25	0.25	0.25	16.2	16.2	16.2
971	NW_000e	0.0	0.0	0.0	0.0	0.0	0.0	23.8	0.0	0.0

PE990-7N, Page 31/33-F0  
TUB-test chart PE99; hue code: H\*e=R00Ye  
colors and differences, ΔE\*  
input: rgb/cmyk -> rgbd  
output: 3D-linearization to cmyk\*de





n	HC*File	rgb*File	igt*File	hsa*File	rgb*File	LabCIE*File	cmyp*sep*File	cmyp*sep*Rate	0.02	0.05	0.164	LabCIE*File	rgb*File	hsa*File
1053	NW_086de	0.866	0.866	0.866	0.866	0.866	0.0	0.0	0.019	0.02	0.164	95.8	1.0	360
1054	NW_093de	0.933	0.933	0.933	0.933	0.933	0.0	0.0	0.016	0.005	0.103	95.8	1.0	360
1055	NW_100de	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	95.8	1.0	360
1056	NW_006de	0.066	0.066	0.066	0.066	0.066	0.0	0.0	0.0	0.0	0.0	95.8	1.0	360
1057	NW_006de	0.066	0.066	0.066	0.066	0.066	0.0	0.0	0.0	0.0	0.0	95.8	1.0	360
1058	NW_013de	0.133	0.133	0.133	0.133	0.133	0.0	0.0	0.016	0.054	0.865	95.8	1.0	360
1059	NW_020de	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.053	0.109	0.809	95.8	1.0	360
1060	NW_026de	0.266	0.266	0.266	0.266	0.266	0.0	0.0	0.039	0.092	0.761	95.8	1.0	360
1061	NW_033de	0.333	0.333	0.333	0.333	0.333	0.0	0.0	0.044	0.068	0.761	95.8	1.0	360
1062	NW_040de	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.023	0.048	0.608	95.8	1.0	360
1063	NW_046de	0.466	0.466	0.466	0.466	0.466	0.0	0.0	0.038	0.078	0.539	95.8	1.0	360
1064	NW_053de	0.533	0.533	0.533	0.533	0.533	0.0	0.0	0.028	0.044	0.482	95.8	1.0	360
1065	NW_060de	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.017	0.04	0.427	95.8	1.0	360
1066	NW_066de	0.666	0.666	0.666	0.666	0.666	0.0	0.0	0.015	0.038	0.381	95.8	1.0	360
1067	NW_073de	0.734	0.734	0.734	0.734	0.734	0.0	0.0	0.017	0.033	0.301	95.8	1.0	360
1068	NW_080de	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.001	0.011	0.23	95.8	1.0	360
1069	NW_086de	0.866	0.866	0.866	0.866	0.866	0.0	0.0	0.019	0.02	0.164	95.8	1.0	360
1070	NW_093de	0.933	0.933	0.933	0.933	0.933	0.0	0.0	0.016	0.005	0.103	95.8	1.0	360
1071	NW_100de	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	95.8	1.0	360
1072	NW_006de	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.8	1.0	360
1073	NW_100de	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	95.8	1.0	360
1074	ROY_100_100de	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	95.8	1.0	360
1075	G50B_100_100de	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.8	1.0	360
1076	Y06G_100_100de	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.8	1.0	360
1077	B00L_100_100de	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.8	1.0	360
1078	B50R_100_100de	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.8	1.0	360
1079	B50R_100_100de	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	95.8	1.0	360

delta

Mean color difference of this page:

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

TUB-test chart PE99; hue code: H\*e=R00Ye  
colors and differences, ΔE\*<sub>a</sub>\*

