

Input and Output: Printer Reflective System FRS06a

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

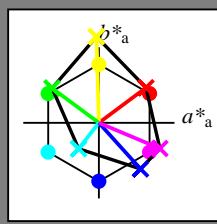
$HIC^*_-$

hue text for the colours of this page:

$H^*_-$  = R00Y\_, R25Y\_, ..., B75R\_

ORS20a; adapted (a) CIELAB data

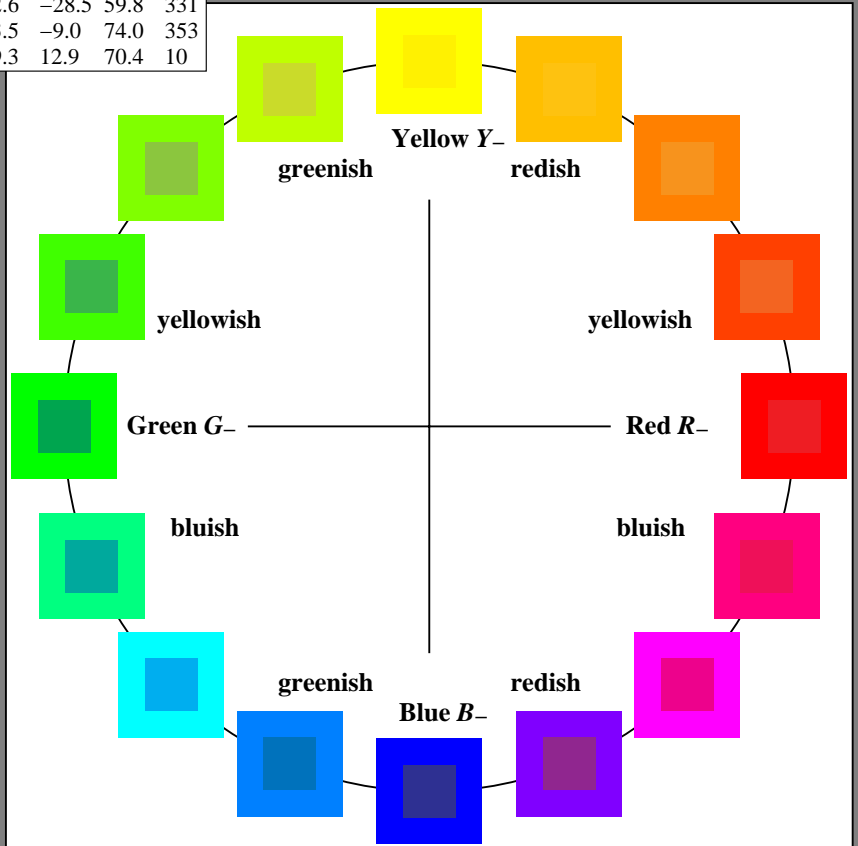
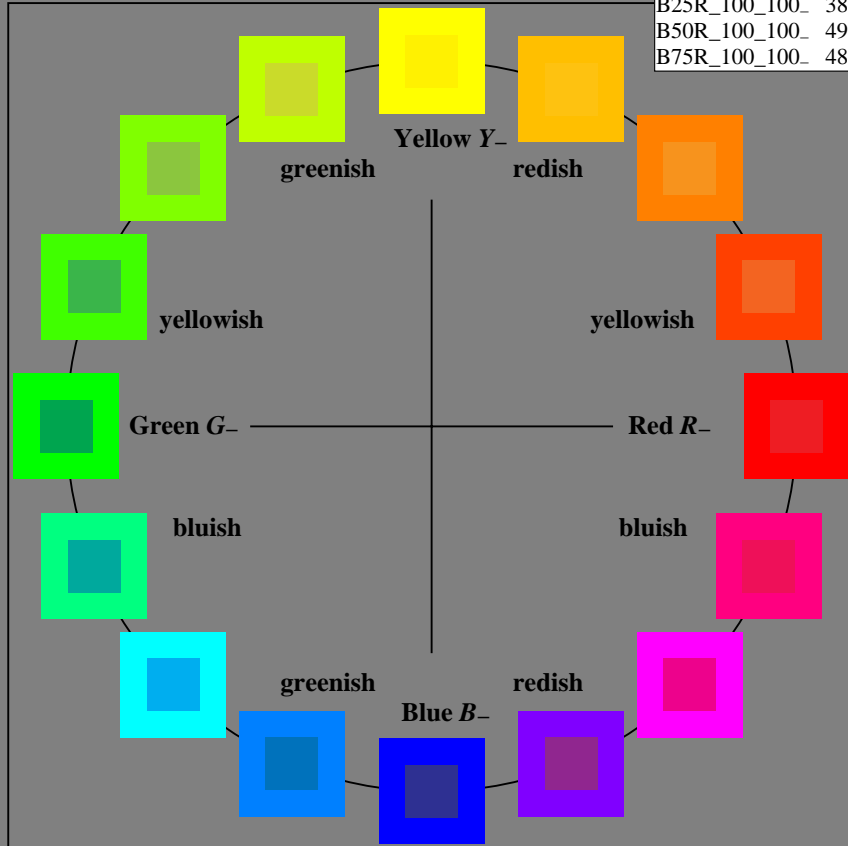
$H^*_-$	$L^*=L^*_a a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
R00Y_100_100_	48.4	66.1	40.2	77.3	31
R25Y_100_100_	56.8	48.0	50.5	69.6	46
R50Y_100_100_	68.6	25.0	63.9	68.6	68
R75Y_100_100_	80.6	4.8	77.2	77.3	86
Y00G_100_100_	90.2	-9.6	88.2	88.7	96
Y25G_100_100_	83.2	-18.4	79.9	81.9	102
Y50G_100_100_	73.3	-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  
 $g^*_{H,rel} = 28$   
 $g^*_{C,rel} = 38$

FRS06a; adapted (a) CIELAB data

name	$L^*=L^*_a a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
R_.,Ma	32.5	62.3	46.4	77.7	36
Y_.,Ma	82.7	-3.1	113.9	114.0	91
G_.,Ma	39.4	-61.8	45.8	76.9	143
C_.,Ma	47.8	-26.8	-34.2	43.4	231
B_.,Ma	10.1	55.1	-61.0	82.2	312
M_.,Ma	34.5	80.6	-33.9	87.5	337
N_.,Ma	6.2	0.0	0.0	0.0	0
W_.,Ma	91.9	0.0	0.0	0.0	0
R_.,CIE	39.9	58.7	27.9	65.0	25
Y_.,CIE	81.2	-2.8	71.5	71.6	92
G_.,CIE	52.2	-42.4	13.6	44.5	162
B_.,CIE	30.5	1.4	-46.4	46.4	271



1-003030-L0 PE890-7N

TUB-test chart PE89; 16 step hue circle  
Test chart according to DIN 33872, 3D=0, de=0, cmyk

input: *rgb/cmyk* -> *rgb/cmyk*  
output: no change

see similar files: http://130.149.60.45/~farbmetrik/PE89/PE89.HTM  
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20150701-PE89/PE89LONA.TXT /.PS  
application for measurement of laser printer output

TUB material: code=rh4ta

Input and Output: Printer Reflective System FRS06a

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

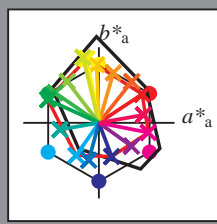
$HIC^*_d$

hue text for the colours of this page:

$H^*_d = R00Y_d, R25Y_d, \dots, B75R_d$

LRS18a; adapted (a) CIELAB data

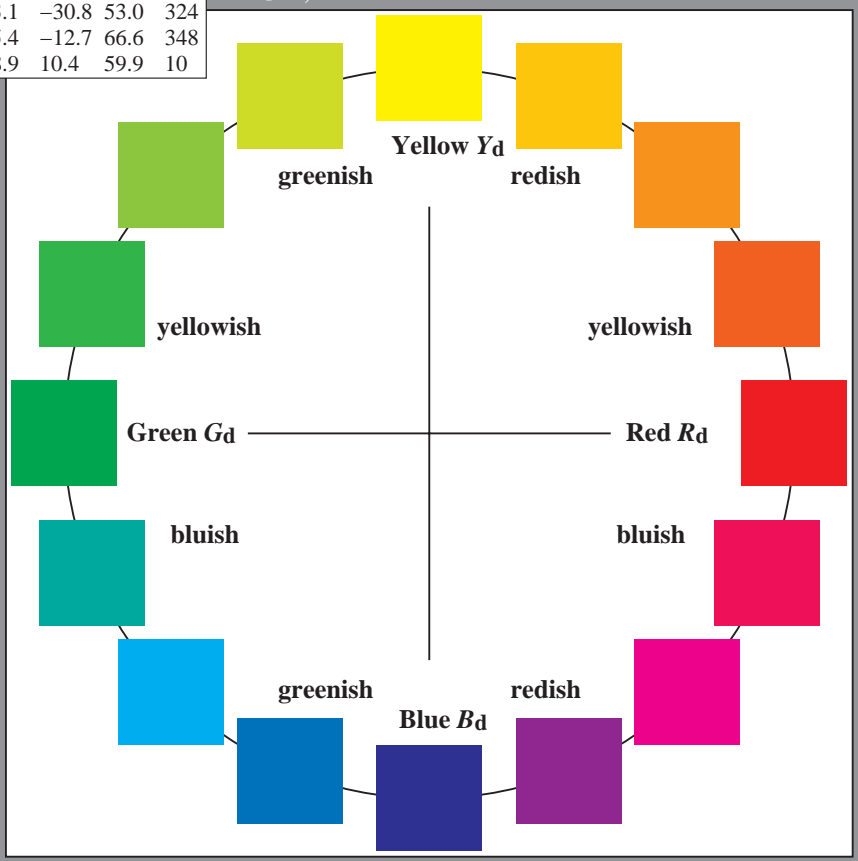
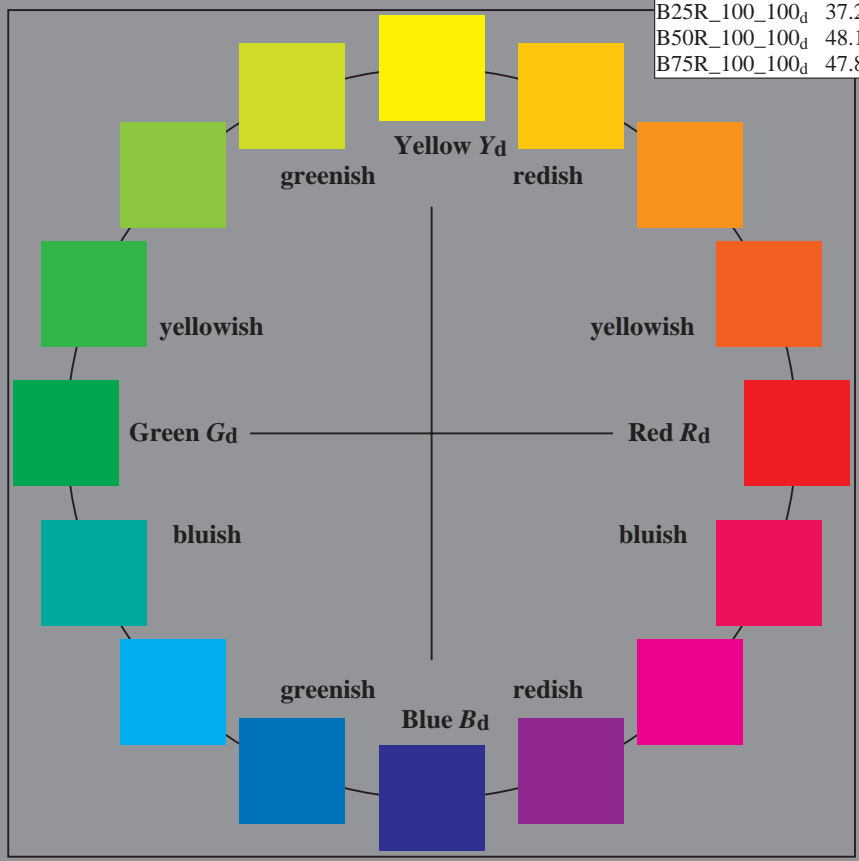
$H^*_d$	$L^*=L^*_a a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_d	47.5	57.2	37.8	68.6
R25Y_100_100_d	57.4	43.5	54.5	69.7
R50Y_100_100_d	70.5	19.2	66.2	69.0
R75Y_100_100_d	83.5	-2.9	76.8	76.9
Y00G_100_100_d	91.5	-15.8	84.6	86.1
Y25G_100_100_d	90.4	-20.9	86.5	89.0
Y50G_100_100_d	70.9	-41.7	54.8	68.9
Y75G_100_100_d	60.1	-57.9	39.6	70.2
G00B_100_100_d	54.3	-67.6	30.8	74.3
G25B_100_100_d	55.0	-51.4	-8.9	52.2
G50B_100_100_d	53.1	-30.0	-43.1	52.5
G75B_100_100_d	46.1	-13.3	-49.4	51.1
B00R_100_100_d	32.5	16.9	-44.6	47.7
B25R_100_100_d	37.2	43.1	-30.8	53.0
B50R_100_100_d	48.1	65.4	-12.7	66.6
B75R_100_100_d	47.8	58.9	10.4	59.9



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

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
Y <sub>d, Ma</sub>	91.5	-15.8	84.6	86.1
G <sub>d, Ma</sub>	54.3	-67.6	30.8	74.3
C <sub>d, Ma</sub>	53.1	-30.0	-43.1	52.5
B <sub>d, Ma</sub>	32.5	16.9	-44.6	47.7
M <sub>d, Ma</sub>	48.1	65.4	-12.7	66.6
N <sub>d, Ma</sub>	23.8	0.0	0.0	0.0
W <sub>d, Ma</sub>	95.8	0.0	0.0	0.0
R <sub>d, CIE</sub>	39.9	58.7	27.9	65.0
Y <sub>d, CIE</sub>	81.2	-2.8	71.5	71.6
G <sub>d, CIE</sub>	52.2	-42.4	13.6	44.5
B <sub>d, CIE</sub>	30.5	1.4	-46.4	46.4



1-003130-L0 PE890-70

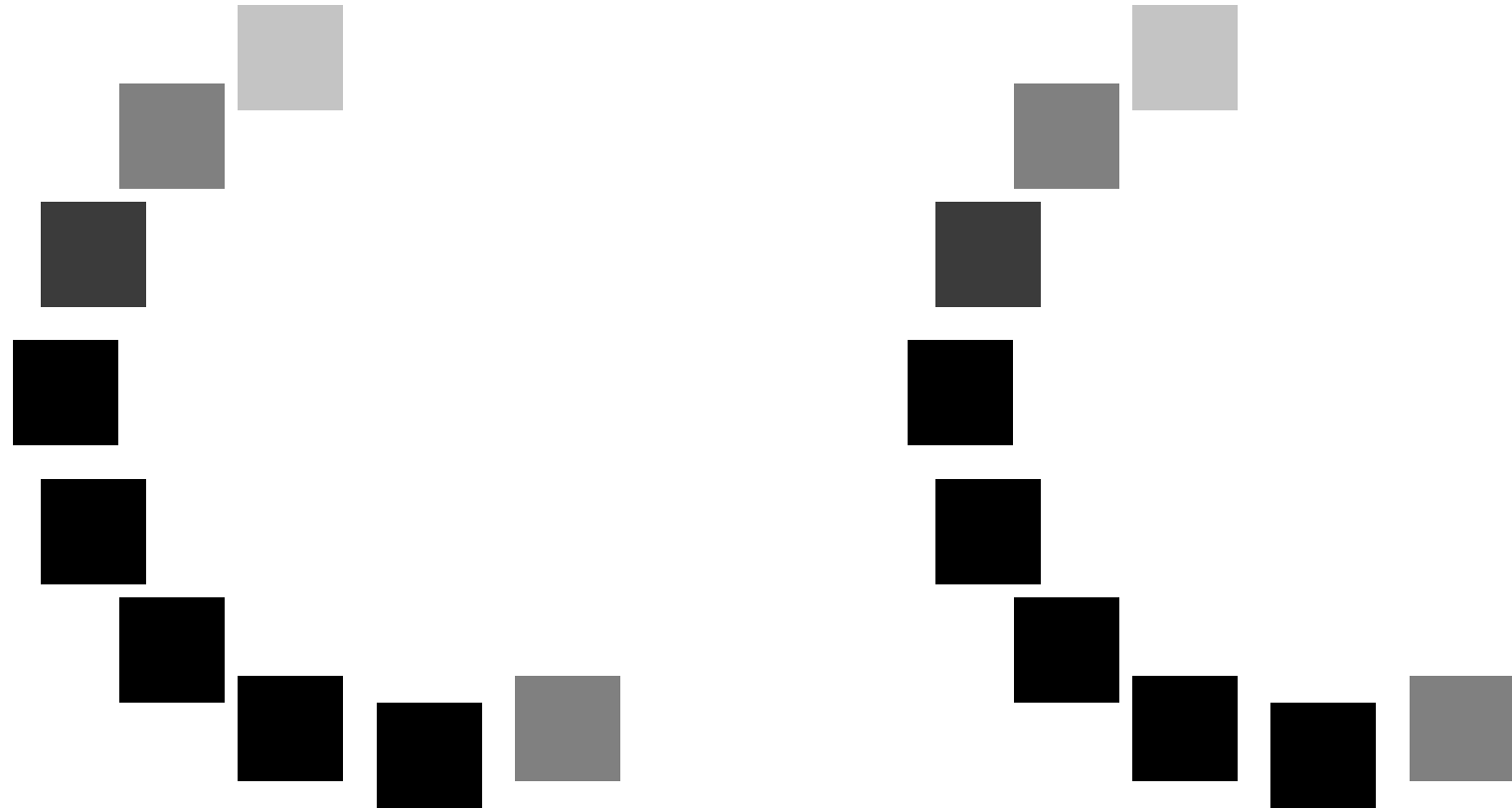
TUB-test chart PE89; 16 step hue circle  
Test chart according to DIN 33872, 3D=0, de=0, cmyk

input:  $rgb/cmyk \rightarrow rgb_d$   
output: transfer to  $cmyk_d$

1-003130-F0

see similar files: http://130.149.60.45/~farbmetrik/PE89/PE89.HTM  
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20150701-PE89/PE89L0NA.TXT /.PS  
application for measurement of laser printer output, separation cmyk6 (CMYK)  
TUB material: code=rh4ta

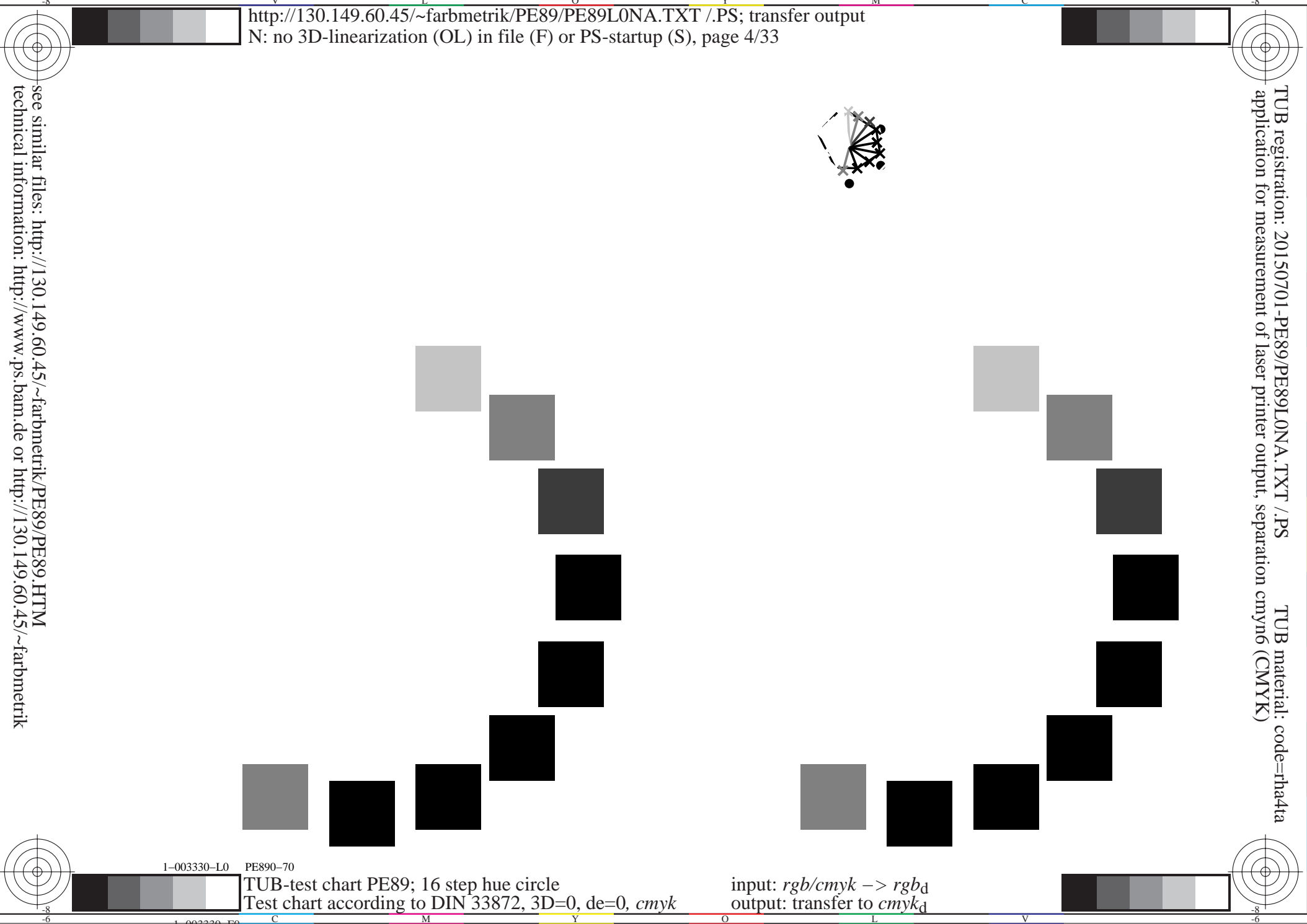
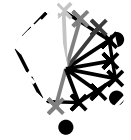


1-003230-L0 PE890-70

TUB-test chart PE89; 16 step hue circle  
Test chart according to DIN 33872, 3D=0, de=0, cmyk

input:  $rgb/cmyk \rightarrow rgb_d$   
output: transfer to  $cmyk_d$



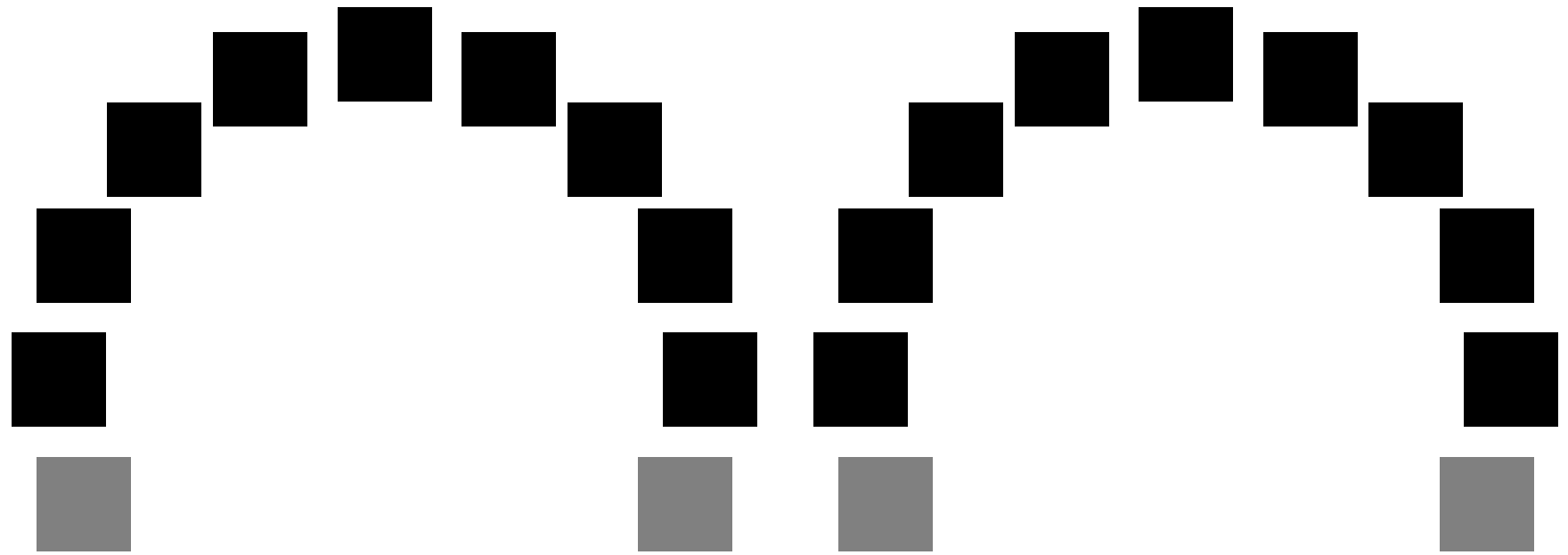


1-003330-L0 PE890-70

TUB-test chart PE89; 16 step hue circle  
Test chart according to DIN 33872, 3D=0, de=0, cmyk

input:  $rgb/cmyk \rightarrow rgb_d$   
output: transfer to  $cmyk_d$

1-003330-F0



Input and Output: Printer Reflective System FRS06a

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

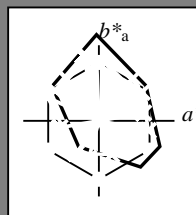
$$HIC^*_d$$

hue text for the colours of this page:

$$H^*_d = R00Y_d, R25Y_d, \dots, B75R_d$$

LRS18a; adapted (a) CIELAB data

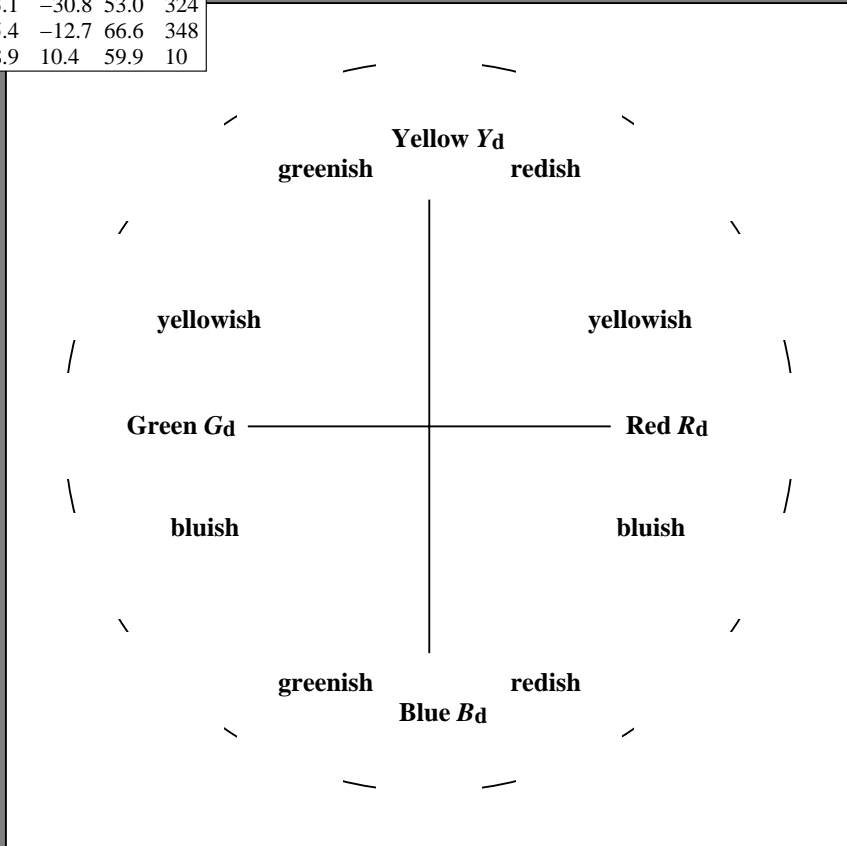
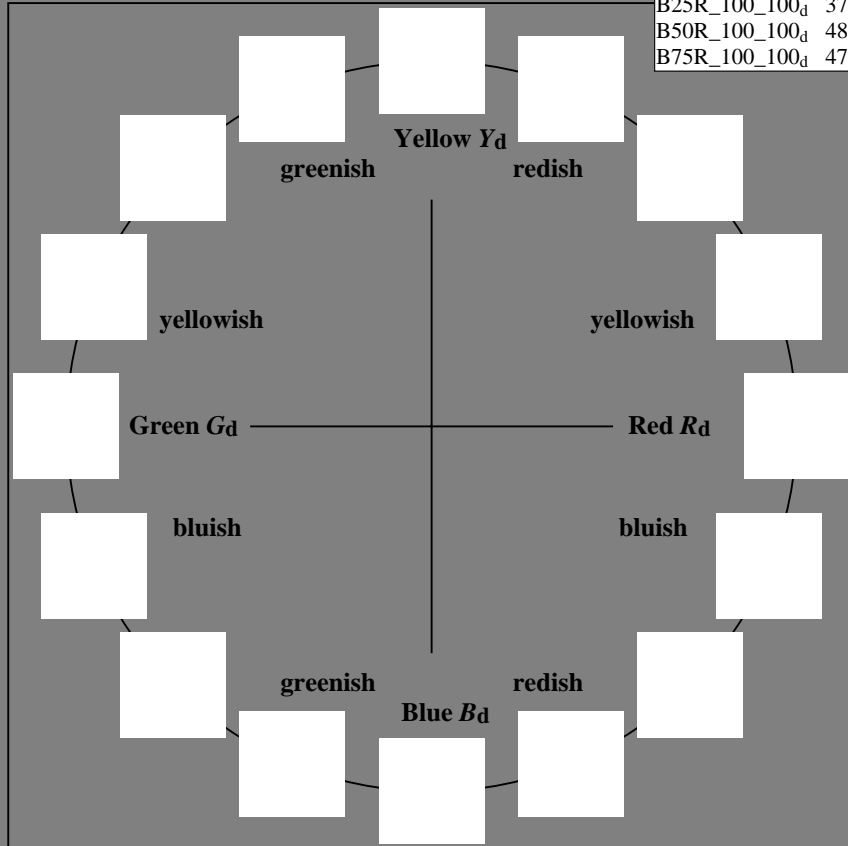
$H^*_d$	$L^*=L^*_a a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
R00Y_100_100_d	47.5	57.2	37.8	68.6	33
R25Y_100_100_d	57.4	43.5	54.5	69.7	51
R50Y_100_100_d	70.5	19.2	66.2	69.0	73
R75Y_100_100_d	83.5	-2.9	76.8	76.9	92
Y00G_100_100_d	91.5	-15.8	84.6	86.1	100
Y25G_100_100_d	90.4	-20.9	86.5	89.0	103
Y50G_100_100_d	70.9	-41.7	54.8	68.9	127
Y75G_100_100_d	60.1	-57.9	39.6	70.2	145
G00B_100_100_d	54.3	-67.6	30.8	74.3	155
G25B_100_100_d	55.0	-51.4	-8.9	52.2	189
G50B_100_100_d	53.1	-30.0	-43.1	52.5	235
G75B_100_100_d	46.1	-13.3	-49.4	51.1	254
B00R_100_100_d	32.5	16.9	-44.6	47.7	290
B25R_100_100_d	37.2	43.1	-30.8	53.0	324
B50R_100_100_d	48.1	65.4	-12.7	66.6	348
B75R_100_100_d	47.8	58.9	10.4	59.9	10



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

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



1-003530-L0 PE890-70

TUB-test chart PE89; 16 step hue circle  
 Test chart according to DIN 33872, 3D=0, de=0, cmyk

input:  $rgb/cmyk \rightarrow rgb_d$   
 output: transfer to  $cmyk_d$

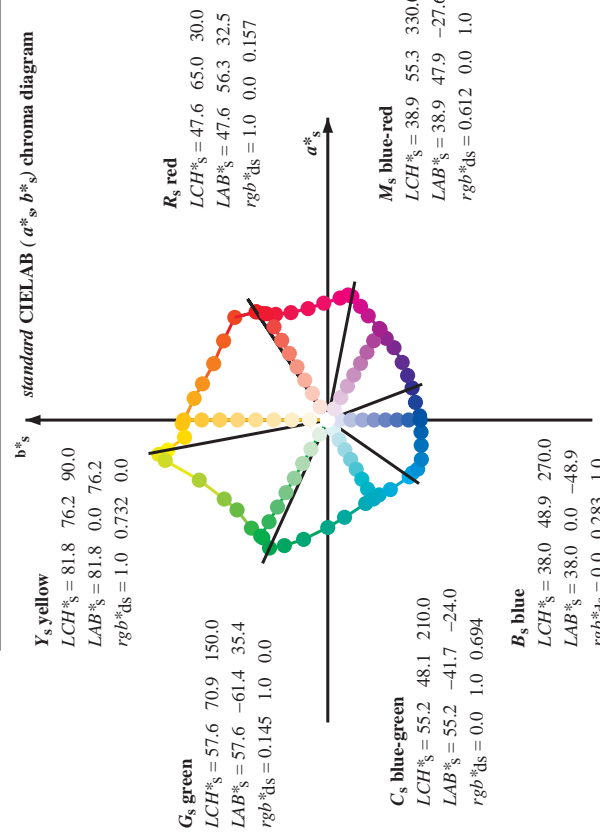
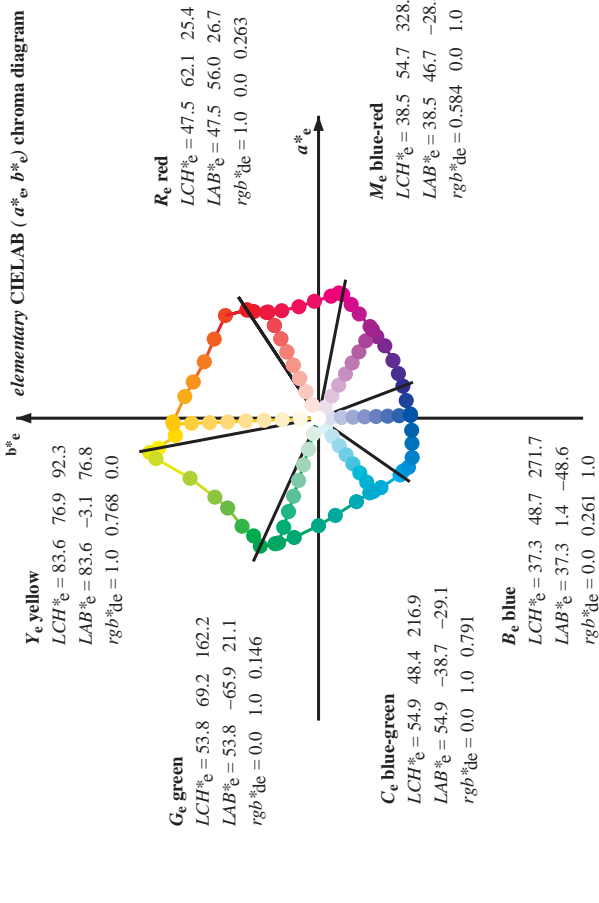
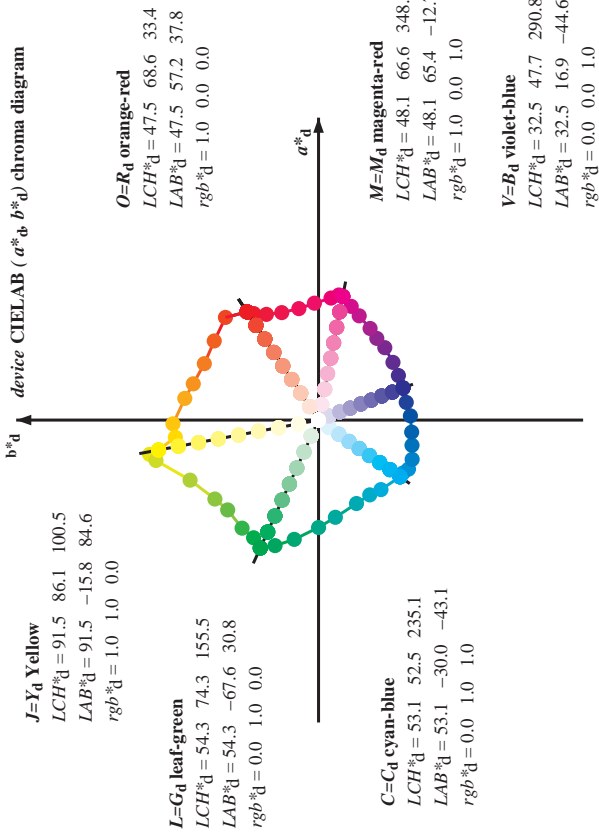
1-003530-F0

TUB registration: 20150701-PE89/PE89L0NA.TXT /.PS  
 application for measurement of laser printer output, separation cmyk6 (CMYK)  
 TUB material: code=rh4ta

see similar files: http://130.149.60.45/~farbmetrik/PE89/PE89.HTM  
 technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /PS; transfer output  
 N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 7/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk6\*, 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;  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$



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

- For the  $rgb^*_s$ -input values the CIELAB data  $LCH^*_s$  and  $LAB^*_s$  have been calculated.
- For the calculation of the standard hue angle  $h_{abs}$  use for any device values  $rgb^*_s$  the equation:  

$$h_{abs} = \arctan \left[ \frac{r^*_s \cos(30) + g^*_s \sin(150)}{r^*_s \sin(30) + g^*_s \sin(150)} \right] + b^*_s \sin(270) \quad (1)$$
- For the 48 or 360 equally spaced standard hue angles  $h_{abs}$  of the colours of maximum chroma use the seven hue angles of the 60 degree colours  $s$ :  $h_{abs} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0, 390.0$  ( $i=0,6$ ) and the equations for a 48 and 360 step hue circle:  

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

$$h_{360abs,ij} = h_{abs,i} + j [h_{abs,i+1} - h_{abs,i}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (3)$$
- For the 48 or 360 elementary hue angles  $h_{abs}$  of the colours of maximum chroma use the seven hue angles of the elementary colours  $e$ :  $h_{abs} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6, 385.5$  ( $i=0,6$ ) and the equations for a 48 and 360 step elementary hue circle:  

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

$$h_{360abs,ej} = h_{abs,e} + j [h_{abs,e+1} - h_{abs,e}] / 60 \quad (i = 0, 1, \dots, 5; j = 0, 1, \dots, 59) \quad (5)$$
- For any elementary hue angle  $h_{abs}$  there is a well defined device hue angle  $h_{ab,d}$  see the following tables, columns 1 to 5 or 1 to 4.
- The values  $rgb^*_s$  produce the output of the device-independent elementary hues

TUB-test chart PE89; 16 step hue circle  
 48 step hue circles;  $rgb-LabCh$ \*tables

input:  $rgb/cmyk \rightarrow rgb_d$   
 output: transfer to  $cmyk_d$



http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 8/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk6; D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; h\_ab,d65 = 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, 92.3, 162.2, 217.0, 271.7, 328.6

Table with columns: h\_ab,d, h\_ab,s, h\_ab,e, LAB\* d64M, LAB\* d65M, LAB\* d66M, LAB\* d67M, LAB\* d68M, LAB\* d69M, LAB\* d70M, LAB\* d71M, LAB\* d72M, LAB\* d73M, LAB\* d74M, LAB\* d75M, LAB\* d76M, LAB\* d77M, LAB\* d78M, LAB\* d79M, LAB\* d80M, LAB\* d81M, LAB\* d82M, LAB\* d83M, LAB\* d84M, LAB\* d85M, LAB\* d86M, LAB\* d87M, LAB\* d88M, LAB\* d89M, LAB\* d90M, LAB\* d91M, LAB\* d92M, LAB\* d93M, LAB\* d94M, LAB\* d95M, LAB\* d96M, LAB\* d97M, LAB\* d98M, LAB\* d99M, LAB\* d100M. Each column contains numerical data for 100 different color patches.

Input: rgb/cmyk -> rgbd output: transfer to cmykd Output: Laser printer output; separation cmyk6; D65, page 8/36





http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 10/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk6; 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;

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, 92.3, 162.2, 217.0, 271.7, 328.6

Table with 75 rows and 18 columns. Columns include: h\_ab,d, h\_ab,s, h\_ab,e, Lab\*\_d361M, Lab\*\_d361M(x=LabCh), Lab\*\_d361M(y=LabCh), Lab\*\_d361M(z=LabCh), Lab\*\_d361M(x=LabCh), Lab\*\_d361M(y=LabCh), Lab\*\_d361M(z=LabCh), Rg\*\_d361M, Rg\*\_d361M(x=LabCh), Rg\*\_d361M(y=LabCh), Rg\*\_d361M(z=LabCh), Rb\*\_d361M, Rb\*\_d361M(x=LabCh), Rb\*\_d361M(y=LabCh), Rb\*\_d361M(z=LabCh), Rm\*\_d361M, Rm\*\_d361M(x=LabCh), Rm\*\_d361M(y=LabCh), Rm\*\_d361M(z=LabCh).

I=003930-I0 PE890-70 LAB\*lab, YN=0%, XY,Znw=3.9, 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 PE89; 16 step hue circle 48 step hue circles; rg\*\_LabCh\*tables

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

Output: Laser printer output; separation cmyk6; D65; page 10/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmykn6; 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;  $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six hue angles of the elementary colours RYGBM;  $h_{ab,e} = 25.5, 93.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{ds}$	$rgb^*_{ds}$	$LAB^*_{dsx361MI}$	$LAB^*_{dsx361MI}$	$LAB^*_{dsx361MI}$	$rgb^*_{ds}$	$rgb^*_{ds}$	$LAB^*_{dsx361MI}$	$LAB^*_{dsx361MI}$	$LAB^*_{dsx361MI}$	$rgb^*_{ds}$	$rgb^*_{ds}$
-268	75	75	1.0	0.75	0.0	82.9	-2.0	76.9	77.0	-2.68	$R_d$	1.0	0.521	0.0
92	76	76	1.0	0.766	0.0	83.5	-2.9	76.8	76.9	92		1.0	0.532	0.0
92	77	77	1.0	0.783	0.0	84.2	-3.9	76.7	76.8	92		1.0	0.552	0.0
93	78	78	1.0	0.8	0.0	84.8	-4.8	76.5	76.7	93		1.0	0.572	0.0
94	79	80	1.0	0.816	0.0	85.4	-5.8	76.4	76.6	94		1.0	0.592	0.0
95	80	81	1.0	0.833	0.0	86.0	-6.7	76.2	76.5	95		1.0	0.612	0.0
95	81	82	1.0	0.85	0.0	86.6	-7.6	76.0	76.4	95		1.0	0.642	0.0
96	82	83	1.0	0.866	0.0	87.3	-8.6	75.8	76.3	96		1.0	0.655	0.0
97	83	84	1.0	0.883	0.0	87.8	-9.4	76.3	76.9	97		1.0	0.668	0.0
97	84	85	1.0	0.9	0.0	88.4	-10.3	77.6	78.2	97		1.0	0.681	0.0
98	85	86	1.0	0.916	0.0	88.9	-11.2	78.8	79.6	98		1.0	0.694	0.0
98	86	87	1.0	0.933	0.0	89.4	-12.0	80.0	80.9	98		1.0	0.707	0.0
99	87	88	1.0	0.95	0.0	89.9	-12.9	81.1	82.2	99		1.0	0.72	0.0
99	88	90	1.0	0.966	0.0	90.5	-13.9	82.3	83.5	99		1.0	0.733	0.0
100	89	91	1.0	0.983	0.0	91.0	-14.8	83.5	84.8	100		1.0	0.746	0.0
100	90	92	1.0	1.0	0.0	91.5	-15.8	84.6	86.1	100		1.0	0.769	0.0
100	91	93	0.983	1.0	0.0	91.7	-16.1	85.3	86.8	100		1.0	0.796	0.0
100	92	94	0.966	1.0	0.0	91.9	-16.4	85.9	87.5	100		1.0	0.823	0.0
100	93	95	0.95	1.0	0.0	92.0	-16.7	86.5	88.2	100		1.0	0.851	0.0
101	94	96	0.933	1.0	0.0	92.2	-17.0	87.2	88.8	101		1.0	0.879	0.0
101	95	98	0.916	1.0	0.0	92.4	-17.3	87.8	89.5	101		1.0	0.918	0.0
101	96	99	0.9	1.0	0.0	92.5	-17.6	88.4	90.2	101		1.0	0.957	0.0
101	97	100	0.883	1.0	0.0	92.7	-18.0	89.1	90.9	101		1.0	0.996	0.0
101	98	101	0.866	1.0	0.0	92.6	-18.3	89.2	91.0	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		0.808	1.0	0.0
102	100	103	0.833	1.0	0.0	91.9	-19.2	88.3	90.3	102		0.737	1.0	0.0
102	101	105	0.816	1.0	0.0	91.5	-19.6	87.8	90.0	102		0.71	1.0	0.0
102	102	106	0.8	1.0	0.0	91.1	-20.1	87.4	89.7	102		0.724	1.0	0.0
103	103	107	0.783	1.0	0.0	90.8	-20.5	86.9	89.3	103		0.697	1.0	0.0
103	104	108	0.766	1.0	0.0	90.4	-20.9	86.5	89.0	103		0.684	1.0	0.0
103	105	109	0.75	1.0	0.0	90.1	-21.3	86.0	88.6	103		0.671	1.0	0.0
105	106	110	0.733	1.0	0.0	89.7	-21.8	85.7	88.3	105		0.658	1.0	0.0
106	107	112	0.716	1.0	0.0	89.3	-22.4	85.3	88.0	106		0.645	1.0	0.0
108	108	113	0.7	1.0	0.0	86.0	-26.2	78.9	83.2	108		0.632	1.0	0.0
109	109	114	0.683	1.0	0.0	84.6	-27.6	76.5	81.3	109		0.619	1.0	0.0
111	110	115	0.666	1.0	0.0	83.3	-28.9	74.1	79.5	111		0.607	1.0	0.0
112	111	116	0.65	1.0	0.0	81.9	-30.1	71.6	77.7	112		0.595	1.0	0.0
114	112	117	0.633	1.0	0.0	80.5	-31.2	69.2	75.9	114		0.584	1.0	0.0
115	113	119	0.616	1.0	0.0	79.3	-32.5	67.1	74.6	115		0.572	1.0	0.0
117	114	120	0.6	1.0	0.0	78.1	-34.0	65.4	73.8	117		0.56	1.0	0.0
119	115	121	0.583	1.0	0.0	76.9	-35.5	63.7	72.9	119		0.548	1.0	0.0
120	116	122	0.566	1.0	0.0	75.7	-36.9	62.0	72.1	120		0.536	1.0	0.0
122	117	123	0.55	1.0	0.0	74.5	-38.2	60.2	71.3	122		0.524	1.0	0.0
124	118	124	0.533	1.0	0.0	73.3	-39.4	58.4	70.5	124		0.512	1.0	0.0
125	119	126	0.516	1.0	0.0	72.1	-40.6	56.6	69.7	125		0.501	1.0	0.0
127	120	127	0.5	1.0	0.0	70.9	-41.7	54.8	68.9	127		0.489	1.0	0.0

Input: rgb/cmyk -> rgbd  
Output: Laser printer output; separation cmykn6; D65, page 11/63  
LAB\*tab, YN=0%, XY,Znw=3.9, 4.1, 84.7, 89.6, 93.9, LAB\*mw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0  
I=0031030=L0 PE890=70  
TUB-test chart PE89; 16 step hue circle  
48 step hue circles; rgb-LabCh\*tables  
I=0031030=F0

http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output  
 N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 12/33

Data of Maximum color M in colorimetric system Laser printer output; separation cmyk6; 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;  
 Six hue angles of the device colours RYGBM; h<sub>abs,d</sub> = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9; Six hue angles of the elementary colours RYGBM; h<sub>abs,d</sub> = 25.5, 93.3, 162.2, 217.0, 271.7, 328.6

h <sub>ab,d</sub>	h <sub>ab,s</sub>	LAB* <sub>d3611</sub> (x=LabCh)			LAB* <sub>s3611</sub> (x=LabCh)			LAB* <sub>d3611</sub> (x=LabCh)			LAB* <sub>s3611</sub> (x=LabCh)			RGB* <sub>d3611</sub>			RGB* <sub>s3611</sub>						
		L*	a*	b*	L*	a*	b*	L*	a*	b*	L*	a*	b*	R	G	B	R	G	B				
127	120	0.5	1.0	0.0	70.9	-41.7	54.8	68.9	127	0.5	1.0	0.0	0.501	1.0	0.0	71.0	-41.6	54.9	68.9	127	0.5	1.0	0.0
128	121	0.0	0.0	0.0	70.4	-42.6	53.9	68.7	128	0.0	0.0	0.0	0.483	1.0	0.0	70.3	-42.6	53.8	68.7	128	0.483	1.0	0.0
129	122	0.0	0.0	0.0	69.8	-43.4	53.0	68.5	129	0.0	0.0	0.0	0.467	1.0	0.0	69.6	-43.6	52.8	68.5	129	0.467	1.0	0.0
130	123	0.0	0.0	0.0	69.2	-44.2	52.1	68.3	130	0.0	0.0	0.0	0.451	1.0	0.0	68.9	-44.5	51.7	68.3	130	0.451	1.0	0.0
131	124	0.0	0.0	0.0	68.6	-45.0	51.2	68.2	131	0.0	0.0	0.0	0.435	1.0	0.0	68.3	-45.4	50.7	68.1	131	0.435	1.0	0.0
132	125	0.0	0.0	0.0	68.0	-45.7	50.3	68.0	132	0.0	0.0	0.0	0.419	1.0	0.0	67.6	-46.3	49.6	67.9	132	0.419	1.0	0.0
133	126	0.0	0.0	0.0	67.4	-46.5	49.4	67.8	133	0.0	0.0	0.0	0.403	1.0	0.0	66.9	-47.1	48.5	67.7	133	0.403	1.0	0.0
134	127	0.0	0.0	0.0	66.8	-47.2	48.5	67.7	134	0.0	0.0	0.0	0.387	1.0	0.0	66.2	-48.2	47.6	67.8	135	0.387	1.0	0.0
135	128	0.0	0.0	0.0	66.1	-48.2	47.5	67.7	135	0.0	0.0	0.0	0.371	1.0	0.0	65.5	-49.4	46.8	68.1	136	0.371	1.0	0.0
136	129	0.0	0.0	0.0	65.4	-49.5	46.6	68.1	136	0.0	0.0	0.0	0.355	1.0	0.0	64.8	-50.5	46.0	68.4	137	0.355	1.0	0.0
137	130	0.0	0.0	0.0	64.8	-50.9	45.7	68.4	137	0.0	0.0	0.0	0.339	1.0	0.0	64.1	-51.7	45.1	68.7	138	0.339	1.0	0.0
138	131	0.0	0.0	0.0	64.3	-52.4	44.7	68.7	138	0.0	0.0	0.0	0.323	1.0	0.0	63.4	-52.8	44.2	68.9	139	0.323	1.0	0.0
139	132	0.0	0.0	0.0	63.8	-53.9	43.7	69.1	139	0.0	0.0	0.0	0.307	1.0	0.0	62.7	-53.9	43.3	69.2	140	0.307	1.0	0.0
140	133	0.0	0.0	0.0	63.3	-55.4	42.6	69.4	140	0.0	0.0	0.0	0.291	1.0	0.0	62.0	-55.0	42.4	69.5	141	0.291	1.0	0.0
141	134	0.0	0.0	0.0	62.8	-57.0	41.5	69.7	141	0.0	0.0	0.0	0.275	1.0	0.0	61.3	-56.1	41.4	69.8	142	0.275	1.0	0.0
142	135	0.0	0.0	0.0	62.3	-58.6	40.4	70.1	142	0.0	0.0	0.0	0.259	1.0	0.0	60.6	-57.1	40.5	70.1	143	0.259	1.0	0.0
143	136	0.0	0.0	0.0	61.8	-60.2	39.3	70.5	143	0.0	0.0	0.0	0.243	1.0	0.0	60.0	-58.1	39.4	70.3	144	0.243	1.0	0.0
144	137	0.0	0.0	0.0	61.3	-61.8	38.2	70.9	144	0.0	0.0	0.0	0.227	1.0	0.0	59.3	-59.1	38.3	70.5	145	0.227	1.0	0.0
145	138	0.0	0.0	0.0	60.8	-63.4	37.1	71.3	145	0.0	0.0	0.0	0.211	1.0	0.0	58.6	-60.0	37.2	70.7	146	0.211	1.0	0.0
146	139	0.0	0.0	0.0	60.3	-65.0	36.0	71.7	146	0.0	0.0	0.0	0.195	1.0	0.0	57.9	-60.9	36.1	70.8	147	0.195	1.0	0.0
147	140	0.0	0.0	0.0	59.8	-66.6	34.9	72.1	147	0.0	0.0	0.0	0.179	1.0	0.0	57.3	-61.8	34.9	71.0	148	0.179	1.0	0.0
148	141	0.0	0.0	0.0	59.3	-68.2	33.8	72.5	148	0.0	0.0	0.0	0.163	1.0	0.0	56.6	-62.7	33.8	71.6	149	0.163	1.0	0.0
149	142	0.0	0.0	0.0	58.8	-69.8	32.7	72.9	149	0.0	0.0	0.0	0.147	1.0	0.0	56.0	-63.6	32.7	71.5	150	0.147	1.0	0.0
150	143	0.0	0.0	0.0	58.3	-71.4	31.6	73.3	150	0.0	0.0	0.0	0.131	1.0	0.0	55.4	-64.4	31.6	71.5	151	0.131	1.0	0.0
151	144	0.0	0.0	0.0	57.8	-73.0	30.5	73.7	151	0.0	0.0	0.0	0.115	1.0	0.0	54.8	-65.2	30.5	71.4	152	0.115	1.0	0.0
152	145	0.0	0.0	0.0	57.3	-74.6	29.4	74.1	152	0.0	0.0	0.0	0.099	1.0	0.0	54.2	-66.0	29.4	71.2	153	0.099	1.0	0.0
153	146	0.0	0.0	0.0	56.8	-76.2	28.3	74.5	153	0.0	0.0	0.0	0.083	1.0	0.0	53.6	-66.8	28.3	70.9	154	0.083	1.0	0.0
154	147	0.0	0.0	0.0	56.3	-77.8	27.2	74.9	154	0.0	0.0	0.0	0.067	1.0	0.0	53.0	-67.6	27.2	70.8	155	0.067	1.0	0.0
155	148	0.0	0.0	0.0	55.8	-79.4	26.1	75.3	155	0.0	0.0	0.0	0.051	1.0	0.0	52.4	-68.4	26.1	70.7	156	0.051	1.0	0.0
156	149	0.0	0.0	0.0	55.3	-81.0	25.0	75.7	156	0.0	0.0	0.0	0.035	1.0	0.0	51.8	-69.2	25.0	70.6	157	0.035	1.0	0.0
157	150	0.0	0.0	0.0	54.8	-82.6	23.9	76.1	157	0.0	0.0	0.0	0.019	1.0	0.0	51.2	-70.0	23.9	70.5	158	0.019	1.0	0.0
158	151	0.0	0.0	0.0	54.3	-84.2	22.8	76.5	158	0.0	0.0	0.0	0.003	1.0	0.0	50.6	-70.8	22.8	70.4	159	0.003	1.0	0.0
159	152	0.0	0.0	0.0	53.8	-85.8	21.7	76.9	159	0.0	0.0	0.0	0.000	1.0	0.0	50.0	-71.6	21.7	70.3	160	0.000	1.0	0.0
160	153	0.0	0.0	0.0	53.3	-87.4	20.6	77.3	160	0.0	0.0	0.0	0.000	1.0	0.0	49.4	-72.4	20.6	70.2	161	0.000	1.0	0.0
161	154	0.0	0.0	0.0	52.8	-89.0	19.5	77.7	161	0.0	0.0	0.0	0.000	1.0	0.0	48.8	-73.2	19.5	70.1	162	0.000	1.0	0.0
162	155	0.0	0.0	0.0	52.3	-90.6	18.4	78.1	162	0.0	0.0	0.0	0.000	1.0	0.0	48.2	-74.0	18.4	69.9	163	0.000	1.0	0.0
163	156	0.0	0.0	0.0	51.8	-92.2	17.3	78.5	163	0.0	0.0	0.0	0.000	1.0	0.0	47.6	-74.8	17.3	69.8	164	0.000	1.0	0.0
164	157	0.0	0.0	0.0	51.3	-93.8	16.2	78.9	164	0.0	0.0	0.0	0.000	1.0	0.0	47.0	-75.6	16.2	69.7	165	0.000	1.0	0.0
165	158	0.0	0.0	0.0	50.8	-95.4	15.1	79.3	165	0.0	0.0	0.0	0.000	1.0	0.0	46.4	-76.4	15.1	69.6	166	0.000	1.0	0.0
166	159	0.0	0.0	0.0	50.3	-97.0	14.0	79.7	166	0.0	0.0	0.0	0.000	1.0	0.0	45.8	-77.2	14.0	69.5	167	0.000	1.0	0.0
167	160	0.0	0.0	0.0	49.8	-98.6	12.9	80.1	167	0.0	0.0	0.0	0.000	1.0	0.0	45.2	-78.0	12.9	69.4	168	0.000	1.0	0.0
168	161	0.0	0.0	0.0	49.3	-100.2	11.8	80.5	168	0.0	0.0	0.0	0.000	1.0	0.0	44.6	-78.8	11.8	69.3	169	0.000	1.0	0.0

I-0031130-L0 PE890-70 LAB\*at0, YN=0%, XY,Znw=3.9, 4.1, 84.7, 89.6, 93.9, LAB\*mw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0  
 input: rgb/cmyk -> rgbd  
 output: transfer to cmykd  
 Output: Laser printer output; separation cmyk6; D65, page 12/63





http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 14/33

Data of Maximum color. M in colorimetric system Laser printer output; separation cmyk6; 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 14 columns: h\_ab,d, h\_ab,s, h\_ab,e, LAB\*\_d361MI, LAB\*\_ds361MI, LAB\*\_ds361MI (x=LabCh), LAB\*\_d361MI (x=LabCh), LAB\*\_ds361MI, LAB\*\_ds361MI, LAB\*\_ds361MI (x=LabCh), LAB\*\_d361MI (x=LabCh), LAB\*\_ds361MI, LAB\*\_ds361MI, LAB\*\_ds361MI (x=LabCh), LAB\*\_d361MI (x=LabCh). Rows 235-272.

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

TUB-test chart PE89; 16 step hue circle 48 step hue circles; rgb-LabCh\*tables

I-0031330-L0 PE890-70 LAB\*ta0, YN=0%, XY,Znw=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 cmyk6; D65; page 14/33

http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /PS; transfer output  
 N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 15/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk6; 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;  $h_{ab,c} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^{*}_{ds}$	$rgb^{*}_{ds361M}$	$LAB^{*}_{ds361MI}$	$LAB^{*}_{ds361MI}(x=LabCh)$	$rgb^{*}_{dd361MI}$	$rgb^{*}_{dd361MI}$	$LAB^{*}_{dd361MI}$	$LAB^{*}_{dd361MI}(x=LabCh)$	$rgb^{*}_{dd361MI}$	$rgb^{*}_{dd361MI}$									
272	255	258	0.0	0.25	1.0	36.8	2.2	-48.5	48.6	272	0.0	0.449	1.0	44.2	-10.4	-49.4	50.6	258	0.0	0.25	1.0
273	256	258	0.0	0.233	1.0	36.6	3.2	-48.3	48.4	273	0.0	0.482	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	36.4	4.1	-48.0	48.2	274	0.0	0.466	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	36.1	5.1	-47.8	48.1	276	0.0	0.434	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	35.9	6.1	-47.5	47.9	277	0.0	0.434	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	35.6	7.0	-47.2	47.7	278	0.0	0.418	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	35.4	8.0	-46.9	47.5	279	0.0	0.402	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	35.2	8.9	-46.5	47.4	280	0.0	0.386	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	34.9	9.9	-46.3	47.3	282	0.0	0.371	1.0	41.3	-6.0	-49.2	49.7	263	0.0	0.117	1.0
283	264	266	0.0	0.083	1.0	34.2	11.9	-45.9	47.4	283	0.0	0.346	1.0	40.4	-5.1	-49.2	49.4	264	0.0	0.083	1.0
285	266	268	0.0	0.066	1.0	33.9	12.9	-45.7	47.5	285	0.0	0.333	1.0	39.9	-4.3	-49.1	49.3	266	0.0	0.067	1.0
287	267	269	0.0	0.049	1.0	33.5	13.9	-45.4	47.5	287	0.0	0.321	1.0	39.5	-3.5	-49.1	49.2	267	0.0	0.05	1.0
288	268	269	0.0	0.033	1.0	33.2	14.9	-45.2	47.6	288	0.0	0.308	1.0	39.0	-2.7	-49.0	49.1	268	0.0	0.033	1.0
289	269	270	0.0	0.016	1.0	32.9	15.9	-44.9	47.6	289	0.0	0.296	1.0	38.5	-1.8	-48.9	48.9	269	0.0	0.017	1.0
290	270	271	0.0	0.0	1.0	32.5	16.9	-44.6	47.7	290	0.0	0.283	1.0	38.1	-1.0	-48.8	48.9	270	0.0	0.017	1.0
291	271	272	0.016	0.0	1.0	32.4	17.8	-44.3	47.8	291	0.0	0.271	1.0	37.6	0.9	-48.7	48.8	271	0.017	0.0	1.0
293	272	273	0.033	0.0	1.0	32.3	18.7	-44.0	47.9	293	0.0	0.258	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	32.1	19.6	-43.7	47.9	294	0.0	0.245	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	32.0	20.5	-43.4	48.0	295	0.0	0.231	1.0	36.6	3.4	-48.2	48.4	274	0.066	0.0	1.0
296	275	276	0.083	0.0	1.0	31.8	21.4	-43.1	48.1	296	0.0	0.217	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	31.9	22.3	-42.7	48.2	297	0.0	0.202	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	31.6	23.1	-42.4	48.3	298	0.0	0.188	1.0	36.0	5.8	-47.5	48.0	277	0.116	0.0	1.0
299	278	279	0.133	0.0	1.0	31.5	24.1	-42.0	48.4	299	0.0	0.174	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	31.4	25.0	-41.7	48.6	300	0.0	0.16	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	31.4	25.9	-41.4	48.8	302	0.0	0.146	1.0	35.4	8.3	-46.7	47.5	280	0.166	0.0	1.0
303	281	282	0.183	0.0	1.0	31.3	26.8	-41.0	49.0	303	0.0	0.132	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	31.2	27.8	-40.6	49.2	304	0.0	0.118	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	31.1	28.7	-40.2	49.4	305	0.0	0.104	1.0	34.7	10.7	-46.1	47.4	283	0.216	0.0	1.0
306	284	285	0.233	0.0	1.0	31.1	29.6	-39.8	49.6	306	0.0	0.091	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	31.0	30.5	-39.3	49.8	307	0.0	0.078	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	31.4	31.6	-38.8	50.1	309	0.0	0.064	1.0	33.9	13.1	-45.6	47.5	286	0.266	0.0	1.0
310	287	287	0.283	0.0	1.0	31.8	32.6	-38.3	50.3	310	0.0	0.051	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	32.3	33.6	-37.8	50.6	311	0.0	0.038	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	32.7	34.7	-37.2	50.9	312	0.0	0.024	1.0	33.1	15.5	-44.9	47.6	289	0.316	0.0	1.0
314	290	290	0.333	0.0	1.0	33.1	35.7	-36.6	51.2	314	0.0	0.011	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	33.6	36.7	-36.0	51.4	315	0.003	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	34.0	37.7	-35.3	51.7	316	0.018	0.0	1.0	32.4	17.9	-44.2	47.8	292	0.366	0.0	1.0
317	293	293	0.383	0.0	1.0	34.4	38.5	-34.7	51.9	317	0.033	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	34.8	39.2	-34.2	52.1	318	0.047	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	35.2	39.9	-33.7	52.2	319	0.062	0.0	1.0	32.1	20.3	-43.5	48.1	295	0.416	0.0	1.0
320	296	296	0.433	0.0	1.0	35.6	40.5	-33.1	52.4	320	0.077	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	36.0	41.2	-32.6	52.5	321	0.092	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	36.4	41.8	-32.0	52.7	322	0.107	0.0	1.0	31.7	22.7	-42.5	48.3	298	0.466	0.0	1.0
323	299	299	0.483	0.0	1.0	36.8	42.5	-31.4	52.9	323	0.122	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	37.2	43.1	-30.8	53.0	324	0.136	0.0	1.0	31.6	24.3	-41.9	48.5	300	0.5	0.0	1.0

I=0031430-L0 PE890-70 LAB\*lab, YN=0%, XY,Znw=3.9, 4.1, 84.7, 89.6, 93.9, LAB\*nmw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0  
 Output: Laser printer output; separation cmyk6; D65, page 15/33

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



http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /PS; transfer output  
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 16/33

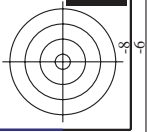
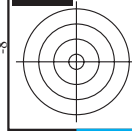
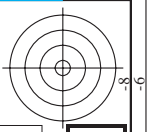
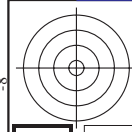
Data of Maximum color, M in colorimetric system Laser printer output, separation cmyk6, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM<sub>d</sub>: h<sub>abs,d</sub> = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;  
Six hue angles of the device colours RYGBM<sub>d</sub>: h<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>	rgb%_d361M	LAB* <sub>s</sub> _d361M (x=LabCh)	rgb%_ds361MI	LAB* <sub>s</sub> _ds361MI (x=LabCh)	rgb%_dd361MI	LAB* <sub>e</sub> _ds361MI	rgb%_de361MI	LAB* <sub>e</sub> _de361MI (x=LabCh)	rgb%_dd361MI		
324	300	300	0.5	0.0	1.0	31.6	24.3	-41.9	48.5	300	0.5	0.0	1.0
325	301	301	0.516	0.0	1.0	31.5	25.1	-41.6	48.7	301	0.517	0.0	1.0
326	302	302	0.533	0.0	1.0	31.4	25.9	-41.3	48.9	302	0.533	0.0	1.0
326	303	303	0.55	0.0	1.0	31.4	26.7	-41.0	49.0	303	0.55	0.0	1.0
327	304	304	0.566	0.0	1.0	31.3	27.5	-40.7	49.2	304	0.567	0.0	1.0
328	305	305	0.583	0.0	1.0	31.2	28.3	-40.3	49.4	305	0.583	0.0	1.0
329	306	306	0.6	0.0	1.0	31.1	29.1	-40.0	49.5	306	0.6	0.0	1.0
330	307	307	0.616	0.0	1.0	31.1	29.9	-39.6	49.7	307	0.617	0.0	1.0
331	308	308	0.633	0.0	1.0	31.1	30.7	-39.2	49.9	308	0.633	0.0	1.0
332	309	309	0.65	0.0	1.0	31.0	31.5	-38.8	50.1	309	0.65	0.0	1.0
333	310	310	0.666	0.0	1.0	31.0	32.3	-38.4	50.3	310	0.667	0.0	1.0
334	311	311	0.683	0.0	1.0	31.0	33.1	-38.0	50.5	311	0.683	0.0	1.0
335	312	312	0.7	0.0	1.0	31.0	33.9	-37.6	50.7	312	0.7	0.0	1.0
336	313	313	0.716	0.0	1.0	31.0	34.7	-37.2	50.9	313	0.717	0.0	1.0
337	314	314	0.733	0.0	1.0	31.0	35.5	-36.7	51.1	314	0.733	0.0	1.0
338	315	315	0.75	0.0	1.0	31.0	36.3	-36.2	51.4	315	0.75	0.0	1.0
339	316	316	0.766	0.0	1.0	31.0	37.1	-35.7	51.6	316	0.767	0.0	1.0
340	317	317	0.783	0.0	1.0	31.0	37.9	-35.2	51.8	317	0.783	0.0	1.0
340	318	318	0.8	0.0	1.0	31.0	38.6	-34.7	52.0	318	0.8	0.0	1.0
341	319	319	0.816	0.0	1.0	31.0	39.3	-34.1	52.1	319	0.817	0.0	1.0
342	320	320	0.833	0.0	1.0	31.0	40.1	-33.5	52.3	320	0.833	0.0	1.0
342	321	321	0.85	0.0	1.0	31.0	40.8	-32.9	52.5	321	0.85	0.0	1.0
343	322	322	0.866	0.0	1.0	31.0	41.5	-32.3	52.7	322	0.867	0.0	1.0
344	323	323	0.883	0.0	1.0	31.0	42.2	-31.7	52.8	323	0.883	0.0	1.0
344	324	324	0.9	0.0	1.0	31.0	42.9	-31.1	53.0	324	0.9	0.0	1.0
345	325	325	0.916	0.0	1.0	31.0	43.7	-30.5	53.3	325	0.917	0.0	1.0
346	326	326	0.933	0.0	1.0	31.0	44.5	-29.9	53.7	326	0.933	0.0	1.0
346	327	327	0.95	0.0	1.0	31.0	45.2	-29.4	54.1	327	0.95	0.0	1.0
347	328	328	0.966	0.0	1.0	31.0	46.0	-28.8	54.5	328	0.967	0.0	1.0
348	329	329	0.983	0.0	1.0	31.0	46.7	-28.2	54.9	329	0.983	0.0	1.0
348	330	330	1.0	0.0	1.0	38.9	47.9	-27.6	55.4	330	1.0	0.0	1.0
349	331	329	1.0	0.0	0.983	48.3	65.4	-12.5	66.7	349	1.0	0.0	0.983
349	332	330	1.0	0.0	0.966	48.5	65.6	-12.2	66.7	349	1.0	0.0	0.967
349	333	331	1.0	0.0	0.95	48.7	65.7	-11.9	66.8	349	1.0	0.0	0.95
349	334	332	1.0	0.0	0.933	48.9	65.8	-11.7	66.8	349	1.0	0.0	0.933
350	335	333	1.0	0.0	0.916	49.0	65.9	-11.4	66.9	350	1.0	0.0	0.917
350	336	334	1.0	0.0	0.9	49.2	66.1	-11.1	66.9	350	1.0	0.0	0.9
350	337	335	1.0	0.0	0.883	49.4	66.1	-10.9	67.0	350	1.0	0.0	0.883
350	338	336	1.0	0.0	0.866	49.5	66.0	-10.4	66.9	350	1.0	0.0	0.867
351	339	337	1.0	0.0	0.85	49.4	65.8	-9.9	66.6	351	1.0	0.0	0.85
351	340	338	1.0	0.0	0.833	49.4	65.6	-9.3	66.3	351	1.0	0.0	0.833
352	341	339	1.0	0.0	0.816	49.4	65.4	-8.7	66.0	352	1.0	0.0	0.817
352	342	339	1.0	0.0	0.8	49.4	65.2	-8.2	65.7	352	1.0	0.0	0.8
353	343	340	1.0	0.0	0.783	49.3	65.0	-7.6	65.4	353	1.0	0.0	0.783
353	344	341	1.0	0.0	0.766	49.3	64.7	-7.1	65.1	353	1.0	0.0	0.767
354	345	342	1.0	0.0	0.75	49.3	64.5	-6.5	64.8	354	1.0	0.0	0.75

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

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





http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output  
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 18/33

ref	HC*Fd	rgb*Fd	icr*Fd	hsa*Fd	rgb*Fd	LabCH*Fd	rgb*Fd	rgb*Fd	DE*Fd	hsa*Fd	rgb*Fd	LabCH*Fd	rgb*Fd	LabCH*Fd	rgb*Fd
0/648	R00Y_100_100a	1.0	0.0	0.0	0.0	0.0	0.0	0.0	33.4	68.6	37.8	57.2	47.5	57.2	37.8
1/657	R13Y_100_100a	1.0	0.125	0.0	0.0	0.0	0.0	0.0	38.9	72.9	41.6	57.2	47.5	57.2	37.8
2/666	R25Y_100_100a	1.0	0.25	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
3/675	R38Y_100_100a	1.0	0.375	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
4/684	R50Y_100_100a	1.0	0.5	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
5/693	R63Y_100_100a	1.0	0.625	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
6/702	R75Y_100_100a	1.0	0.75	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
7/711	R88Y_100_100a	1.0	0.875	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
8/720	Y00G_100_100a	1.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
9/658	Y13G_100_100a	0.875	1.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
10/558	Y25G_100_100a	0.75	1.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
11/477	Y38G_100_100a	0.625	1.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
12/396	Y50G_100_100a	0.5	1.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
13/315	Y63G_100_100a	0.375	1.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
14/234	Y75G_100_100a	0.25	1.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
15/153	Y88G_100_100a	0.125	1.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
16/72	G00C_100_100a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
17/73	G13C_100_100a	0.0	0.125	1.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
18/74	G25C_100_100a	0.0	0.25	1.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
19/75	G38C_100_100a	0.0	0.375	1.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
20/76	G50C_100_100a	0.0	0.5	1.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
21/77	G63C_100_100a	0.0	0.625	1.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
22/78	G75C_100_100a	0.0	0.75	1.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
23/79	G88C_100_100a	0.0	0.875	1.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
24/80	C00B_100_100a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
25/71	C13B_100_100a	0.0	0.125	1.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
26/62	C25B_100_100a	0.0	0.25	1.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
27/53	C38B_100_100a	0.0	0.375	1.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
28/44	C50B_100_100a	0.0	0.5	1.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
29/35	C63B_100_100a	0.0	0.625	1.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
30/26	C75B_100_100a	0.0	0.75	1.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
31/17	C88B_100_100a	0.0	0.875	1.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
32/8	B00M_100_100a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
33/89	B13M_100_100a	0.125	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
34/170	B25M_100_100a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
35/251	B38M_100_100a	0.375	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
36/332	B50M_100_100a	0.5	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
37/413	B63M_100_100a	0.625	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
38/494	B75M_100_100a	0.75	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
39/575	B88M_100_100a	0.875	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
40/656	M00R_100_100a	1.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
41/655	M13R_100_100a	1.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
42/654	M25R_100_100a	1.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
43/653	M38R_100_100a	1.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
44/652	M50R_100_100a	1.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
45/651	M63R_100_100a	1.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
46/650	M75R_100_100a	1.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
47/649	M88R_100_100a	1.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
48/648	R00Y_100_100a	1.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
49/0	NV_000a	0.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
50/91	NV_013a	0.125	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
51/182	NV_025a	0.25	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
52/273	NV_038a	0.375	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
53/364	NV_050a	0.5	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
54/455	NV_063a	0.625	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
55/546	NV_075a	0.75	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
56/637	NV_088a	0.875	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8
57/728	NV_100a	1.0	0.0	0.0	0.0	0.0	0.0	0.0	39.0	72.9	41.6	57.2	47.5	57.2	37.8

Mean color difference of this page:

delta E\*\* = 2.9

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

Table with columns: nuf, HHC\*Fd, rpb\_Fd, icr\_Fd, hsa\_Fd, LabCH\*Fd, LabCH\*\*Fd, rpb\*\*Fd, LabCH\*\*Fd, DE\*\*Fd, HsaMd, rpb\*\*Md, LabCH\*\*Md, LabCH\*\*Md. The table contains 50 rows of data representing color calibration and registration information.

Mean color difference of this page: delta E\*\* = 5.3

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

TUB-test chart PE89; 16 step hue circle  
colors and differences, ΔE\*

PE890-7N, Page 19/33-F

I-0031830-F0

http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output  
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 20/33

Table with 80 columns (numbered 1-80) and 10 rows of data. Each cell contains numerical values representing color differences and registration data for various color patches.

Mean color difference in this page: delta E\* = 70.8

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

PE89-7N, Page 20/33-F

TUB-test chart PE89; 16 step hue circle  
colors and differences, ΔE\*

I-0031930-F0



http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 21/33

Table with 16 columns: n, HHC\*Fd, rpb\*Fd, icr\*Fd, hsa\*Fd, rpb\*Fd, LabC\*Fd, LabCH\*Fd, LabCH\*Fd, rpb\*Fd, DF\*Fd, hsa\*Fd, rpb\*Fd, LabCH\*Fd, LabCH\*Fd, rpb\*Fd. Rows 81-161.

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

Mean color difference of this page: delta E\* = 8.5

PE89-7N, Page 21/33-F

TUB-test chart PE89; 16 step hue circle colors and differences, ΔE\*

http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 22/33

Table with 24 columns: n, HHC\*Fd, rpb\*Fd, icr\*Fd, hsa\*Fd, rpb\*Fd, LabCm\*Fd, LabCh\*Fd, LabCh\*Fd, rpb\*Fd, rpb\*Fd, hsa\*Fd, rpb\*Fd, LabCh\*Fd, LabCh\*Fd, rpb\*Fd, rpb\*Fd, hsa\*Fd, LabCh\*Fd, LabCh\*Fd, rpb\*Fd, rpb\*Fd, hsa\*Fd, LabCh\*Fd. Each row represents a color calibration target.

Mean color difference of this page: delta E\* = 8.0

TUB-test chart PE89; 16 step hue circle colors and differences, ΔE\*

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



http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 23/33

Table with 32 columns: n, HHC\*Fd, Rgb\*Fd, iet\*Fd, Hs\*Fd, Rgb\*Fd, LabCh\*Fd, LabCh\*Fd, Rgb\*Fd, Rgb\*Fd, LabCh\*Fd, LabCh\*Fd, DE\*Fd, Hs\*Fd, Rgb\*Fd, Rgb\*Fd, LabCh\*Fd, LabCh\*Fd, Rgb\*Fd, Rgb\*Fd, LabCh\*Fd, LabCh\*Fd, DE\*Fd, Hs\*Fd, Rgb\*Fd, Rgb\*Fd, LabCh\*Fd, LabCh\*Fd, Rgb\*Fd, Rgb\*Fd. The table contains numerical data for each color channel across 32 rows.

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

TUB-test chart PE89; 16 step hue circle colors and differences, ΔE\*

PE89-7N; Page 23/33-F

I-003220-F0

http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 24/33

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

Table with 15 columns: n, HHC\*Fd, rpb\*Fd, icr\*Fd, hsa\*Fd, rpb\*Fd, LabCh\*Fd, LabCh\*Fd, rpb\*Fd, rpb\*Fd, LabCh\*Fd, DF\*Fd, hsa\*Fd, rpb\*Fd, LabCh\*Fd. Rows include color names like R00Y, R00M, B00R, etc.

PE890-TN, Page 24/33-F

TUB-test chart PE89; 16 step hue circle colors and differences, ΔE\*

http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 25/33

Table with 14 columns: n, HHC\*Fd, Rgb\*Fd, iet\*Fd, Hsa\*Fd, Rgb\*Fd, LabC\*Fd, LabCH\*Fd, DF\*Fd, Hsa\*Fd, Rgb\*Fd, LabCH\*Fd, LabCH\*Fd, LabCH\*Fd. Rows 405-485.

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

PE890-7N, Page 25/33-F

TUB-test chart PE89; 16 step hue circle colors and differences, ΔE\*

http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 26/33

Table with 10 columns: n, HHC\*Fd, Rgb\*Fd, Icr\*Fd, Hsa\*Fd, Rgb\*Fd, LabCh\*Fd, LabCh\*Fd, Df\*Fd, Hsa\*Fd, Rgb\*Fd, LabCh\*Fd. It contains a large grid of numerical data for color calibration.

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

TUB-test chart PE89; 16 step hue circle colors and differences, ΔE\*

I-0032530-F0

http://130.149.60.45/~farbmatrik/PE89/PE89LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 27/33

Table with 15 columns: n, HHC\*Fd, rpb\*Fd, icr\*Fd, hsa\*Fd, rpb\*Fd, LabCH\*Fd, LabCH\*Fd, rpb\*Fd, LabCH\*Fd, DF\*Fd, hsa\*Fd, rpb\*Fd, LabCH\*Fd, LabCH\*Fd. Rows 567-647.

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

TUB-test chart PE89; 16 step hue circle colors and differences, ΔE\*

PE890-7N, Page 27/33-F

I-0032630-F0



http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 28/33

Table with 16 columns: n, HHC\*Fd, rpb\*Fd, icr\*Fd, hsa\*Fd, LabCH\*Fd, LabCH\*Pd, rpb\*Pd, LabCH\*Pd, LabCH\*Fd, DE\*Fd, hsa\*Fd, rpb\*Fd, LabCH\*Pd, LabCH\*Fd, delta E\* = 5.3. Rows list various color patches and their corresponding colorimetric values.

TUB-test chart PE89; 16 step hue circle colors and differences, ΔE\* input: rgb/cmyk -> rgbd output: transfer to cmykd Mean color difference of this page:

http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 29/33

Table with columns: n, H/C/F, r/g/b, i/c/m, h/s, r/g/b, LabC/M, LabC/M, r/g/b, LabC/M, LabC/M, DF, H, r/g/b, LabC/M, LabC/M, Y. Rows 729-809.

Mean color difference of this page: delta E\* = 7.8

TUB-test chart PE89; 16 step hue circle colors and differences, ΔE\*

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

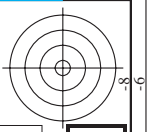
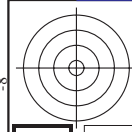
I-0032830-F0

PE890-7N; Page 29/33-F









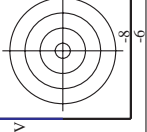
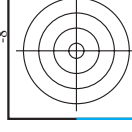
http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 32/33

Table with 15 columns: n, H#C\*Fd, rpb\*Fd, iet\*Fd, hsa\*Fd, rpb\*Fd, LabC\*H\*Fd, LabCH\*F\*Fd, rpb\*Fd, DPF\*Fd, hsa\*Fd, rpb\*Fd, LabCH\*F\*Fd, LabCH\*F\*Yd. Rows 972-1052.

Mean color difference of this page:

delta E\*90 = 3.2

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



http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output  
 N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 33/33

n	HC*Fd	rgb*Fd	icr*Fd	rgb*Fd	LabCIE*Fd	hsa*Fd	rgb*Fd	LabCIE*Fd	rgb*Fd	LabCIE*Fd	DF*Fd	hsa*Fd	rgb*Fd	LabCIE*Fd	DF*Fd	hsa*Fd	rgb*Fd	LabCIE*Fd
1053	NW_086d	0.866	0.866	0.866	0.866	360	0.866	86.1	0.866	90.6	4.4	360	0.866	95.8	4.4	360	0.866	95.8
1054	NW_093d	0.933	0.933	0.933	0.933	360	0.933	91.0	0.933	94.4	4.4	360	0.933	95.8	4.4	360	0.933	95.8
1055	NW_100d	1.0	1.0	1.0	1.0	360	1.0	95.8	1.0	95.8	0.0	360	1.0	95.8	0.0	360	1.0	95.8
1056	NW_006d	0.066	0.066	0.066	0.066	360	0.066	28.6	0.066	21.5	0.1	360	0.066	0.066	0.1	360	0.066	0.066
1057	NW_013d	0.133	0.133	0.133	0.133	360	0.133	33.4	0.133	28.9	0.1	360	0.133	0.133	0.1	360	0.133	0.133
1058	NW_020d	0.2	0.2	0.2	0.2	360	0.2	38.2	0.2	37.3	0.0	360	0.2	0.2	0.0	360	0.2	0.2
1059	NW_026d	0.266	0.266	0.266	0.266	360	0.266	42.9	0.266	44.2	0.0	360	0.266	0.266	0.0	360	0.266	0.266
1060	NW_033d	0.333	0.333	0.333	0.333	360	0.333	47.8	0.333	49.9	0.0	360	0.333	0.333	0.0	360	0.333	0.333
1061	NW_040d	0.4	0.4	0.4	0.4	360	0.4	52.6	0.4	53.8	0.0	360	0.4	0.4	0.0	360	0.4	0.4
1062	NW_046d	0.466	0.466	0.466	0.466	360	0.466	57.3	0.466	59.7	0.0	360	0.466	0.466	0.0	360	0.466	0.466
1063	NW_053d	0.533	0.533	0.533	0.533	360	0.533	62.2	0.533	65.4	0.0	360	0.533	0.533	0.0	360	0.533	0.533
1064	NW_060d	0.6	0.6	0.6	0.6	360	0.6	67.0	0.6	70.2	0.0	360	0.6	0.6	0.0	360	0.6	0.6
1065	NW_066d	0.666	0.666	0.666	0.666	360	0.666	71.7	0.666	75.5	0.0	360	0.666	0.666	0.0	360	0.666	0.666
1066	NW_073d	0.734	0.734	0.734	0.734	360	0.734	76.6	0.734	80.8	0.0	360	0.734	0.734	0.0	360	0.734	0.734
1067	NW_080d	0.8	0.8	0.8	0.8	360	0.8	81.4	0.8	85.3	0.0	360	0.8	0.8	0.0	360	0.8	0.8
1068	NW_086d	0.866	0.866	0.866	0.866	360	0.866	86.1	0.866	90.2	0.0	360	0.866	0.866	0.0	360	0.866	0.866
1069	NW_093d	0.933	0.933	0.933	0.933	360	0.933	91.0	0.933	94.2	0.0	360	0.933	0.933	0.0	360	0.933	0.933
1070	NW_100d	1.0	1.0	1.0	1.0	360	1.0	95.8	1.0	95.8	0.0	360	1.0	95.8	0.0	360	1.0	95.8
1071	NW_006d	0.0	0.0	0.0	0.0	360	0.0	23.8	0.0	19.2	0.1	360	0.0	0.0	0.1	360	0.0	0.0
1072	NW_010d	0.1	0.1	0.1	0.1	360	0.1	25.8	0.1	19.2	0.1	360	0.1	0.1	0.1	360	0.1	0.1
1073	NW_016d	0.166	0.166	0.166	0.166	360	0.166	29.8	0.166	19.2	0.1	360	0.166	0.166	0.1	360	0.166	0.166
1074	NW_020d	0.2	0.2	0.2	0.2	360	0.2	33.4	0.2	19.2	0.1	360	0.2	0.2	0.1	360	0.2	0.2
1075	NW_026d	0.266	0.266	0.266	0.266	360	0.266	38.2	0.266	19.2	0.1	360	0.266	0.266	0.1	360	0.266	0.266
1076	NW_033d	0.333	0.333	0.333	0.333	360	0.333	43.1	0.333	19.2	0.1	360	0.333	0.333	0.1	360	0.333	0.333
1077	NW_040d	0.4	0.4	0.4	0.4	360	0.4	48.0	0.4	19.2	0.1	360	0.4	0.4	0.1	360	0.4	0.4
1078	NW_046d	0.466	0.466	0.466	0.466	360	0.466	52.6	0.466	19.2	0.1	360	0.466	0.466	0.1	360	0.466	0.466
1079	NW_053d	0.533	0.533	0.533	0.533	360	0.533	57.3	0.533	19.2	0.1	360	0.533	0.533	0.1	360	0.533	0.533
1080	NW_060d	0.6	0.6	0.6	0.6	360	0.6	62.2	0.6	19.2	0.1	360	0.6	0.6	0.1	360	0.6	0.6
1081	NW_066d	0.666	0.666	0.666	0.666	360	0.666	67.0	0.666	19.2	0.1	360	0.666	0.666	0.1	360	0.666	0.666
1082	NW_073d	0.734	0.734	0.734	0.734	360	0.734	71.7	0.734	19.2	0.1	360	0.734	0.734	0.1	360	0.734	0.734
1083	NW_080d	0.8	0.8	0.8	0.8	360	0.8	76.6	0.8	19.2	0.1	360	0.8	0.8	0.1	360	0.8	0.8
1084	NW_086d	0.866	0.866	0.866	0.866	360	0.866	81.4	0.866	19.2	0.1	360	0.866	0.866	0.1	360	0.866	0.866
1085	NW_093d	0.933	0.933	0.933	0.933	360	0.933	86.1	0.933	19.2	0.1	360	0.933	0.933	0.1	360	0.933	0.933
1086	NW_100d	1.0	1.0	1.0	1.0	360	1.0	91.0	1.0	19.2	0.1	360	1.0	91.0	0.1	360	1.0	91.0
1087	RGB_100_100d	1.0	1.0	1.0	1.0	360	1.0	95.8	1.0	95.8	0.0	360	1.0	95.8	0.0	360	1.0	95.8
1088	RGB_100_100d	1.0	1.0	1.0	1.0	360	1.0	95.8	1.0	95.8	0.0	360	1.0	95.8	0.0	360	1.0	95.8
1089	RGB_100_100d	1.0	1.0	1.0	1.0	360	1.0	95.8	1.0	95.8	0.0	360	1.0	95.8	0.0	360	1.0	95.8
1090	RGB_100_100d	1.0	1.0	1.0	1.0	360	1.0	95.8	1.0	95.8	0.0	360	1.0	95.8	0.0	360	1.0	95.8
1091	RGB_100_100d	1.0	1.0	1.0	1.0	360	1.0	95.8	1.0	95.8	0.0	360	1.0	95.8	0.0	360	1.0	95.8
1092	RGB_100_100d	1.0	1.0	1.0	1.0	360	1.0	95.8	1.0	95.8	0.0	360	1.0	95.8	0.0	360	1.0	95.8
1093	RGB_100_100d	1.0	1.0	1.0	1.0	360	1.0	95.8	1.0	95.8	0.0	360	1.0	95.8	0.0	360	1.0	95.8
1094	RGB_100_100d	1.0	1.0	1.0	1.0	360	1.0	95.8	1.0	95.8	0.0	360	1.0	95.8	0.0	360	1.0	95.8
1095	RGB_100_100d	1.0	1.0	1.0	1.0	360	1.0	95.8	1.0	95.8	0.0	360	1.0	95.8	0.0	360	1.0	95.8
1096	RGB_100_100d	1.0	1.0	1.0	1.0	360	1.0	95.8	1.0	95.8	0.0	360	1.0	95.8	0.0	360	1.0	95.8
1097	RGB_100_100d	1.0	1.0	1.0	1.0	360	1.0	95.8	1.0	95.8	0.0	360	1.0	95.8	0.0	360	1.0	95.8
1098	RGB_100_100d	1.0	1.0	1.0	1.0	360	1.0	95.8	1.0	95.8	0.0	360	1.0	95.8	0.0	360	1.0	95.8
1099	RGB_100_100d	1.0	1.0	1.0	1.0	360	1.0	95.8	1.0	95.8	0.0	360	1.0	95.8	0.0	360	1.0	95.8
1100	RGB_100_100d	1.0	1.0	1.0	1.0	360	1.0	95.8	1.0	95.8	0.0	360	1.0	95.8	0.0	360	1.0	95.8

Mean color difference of this page:  $\Delta E^* = 3.0$

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

TUB-test chart PE89; 16 step hue circle  
 colors and differences,  $\Delta E^*$

Input and Output: Printer Reflective System FRS06a

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

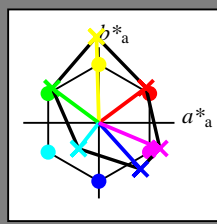
$HIC^*_-$

hue text for the colours of this page:

$H^*_-$  = R00Y\_, R25Y\_, ..., B75R\_

ORS20a; adapted (a) CIELAB data

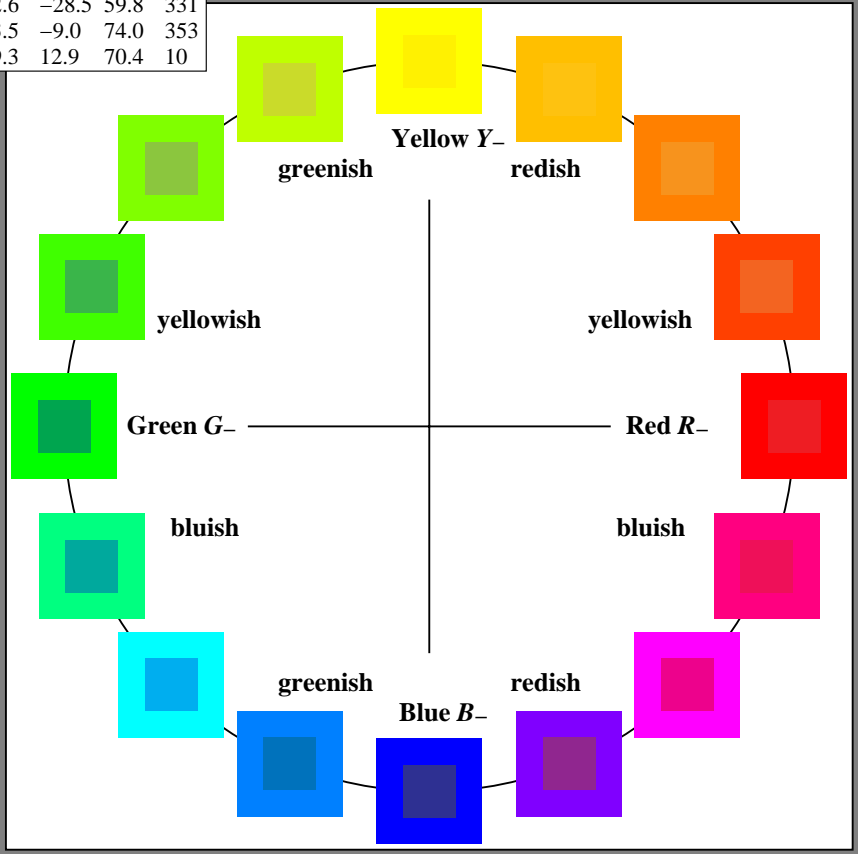
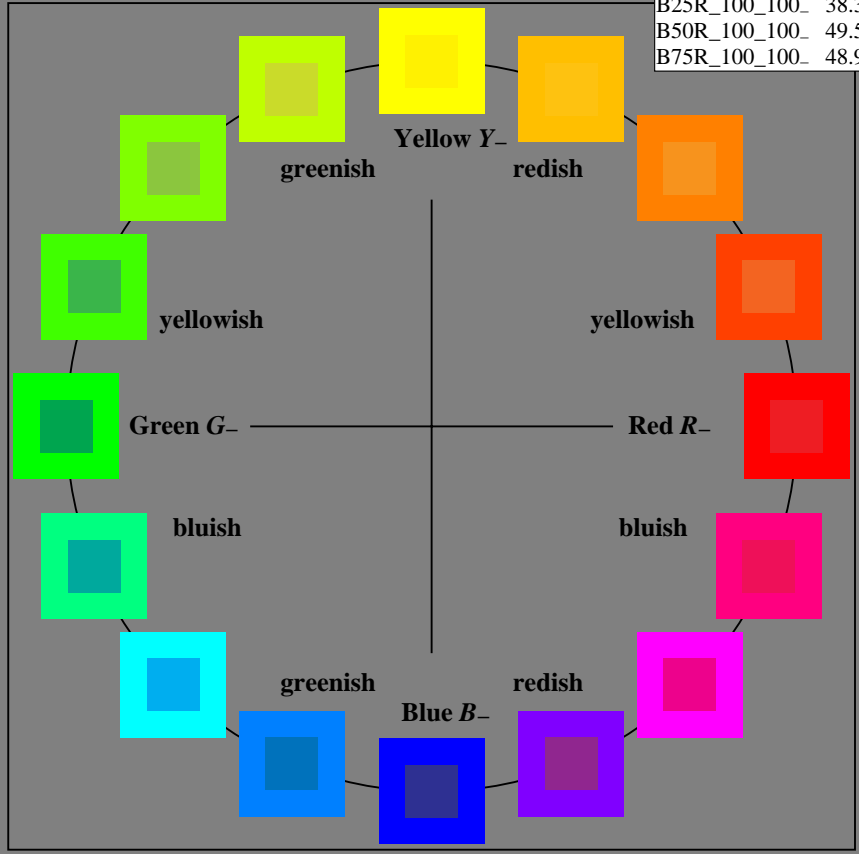
$H^*_-$	$L^*=L^*_a a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
R00Y_100_100_	48.4	66.1	40.2	77.3	31
R25Y_100_100_	56.8	48.0	50.5	69.6	46
R50Y_100_100_	68.6	25.0	63.9	68.6	68
R75Y_100_100_	80.6	4.8	77.2	77.3	86
Y00G_100_100_	90.2	-9.6	88.2	88.7	96
Y25G_100_100_	83.2	-18.4	79.9	81.9	102
Y50G_100_100_	73.3	-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  
 $g^*_{H,rel} = 28$   
 $g^*_{C,rel} = 38$

FRS06a; adapted (a) CIELAB data

name	$L^*=L^*_a a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$	
R_.,Ma	32.5	62.3	46.4	77.7	36
Y_.,Ma	82.7	-3.1	113.9	114.0	91
G_.,Ma	39.4	-61.8	45.8	76.9	143
C_.,Ma	47.8	-26.8	-34.2	43.4	231
B_.,Ma	10.1	55.1	-61.0	82.2	312
M_.,Ma	34.5	80.6	-33.9	87.5	337
N_.,Ma	6.2	0.0	0.0	0.0	0
W_.,Ma	91.9	0.0	0.0	0.0	0
R_.,CIE	39.9	58.7	27.9	65.0	25
Y_.,CIE	81.2	-2.8	71.5	71.6	92
G_.,CIE	52.2	-42.4	13.6	44.5	162
B_.,CIE	30.5	1.4	-46.4	46.4	271



1-013030-L0 PE890-7N

TUB-test chart PE89; 16 step hue circle  
Test chart according to DIN 33872, 3D=0, de=1, cmyk

input: *rgb/cmyk* -> *rgb/cmyk*  
output: no change

see similar files: http://130.149.60.45/~farbmetrik/PE89/PE89.HTM  
technical information: http://www.ps.bam.de or http://130.149.60.45/~farbmetrik

TUB registration: 20150701-PE89/PE89LONA.TXT /.PS  
application for measurement of laser printer output

TUB material: code=rh4ta



Input and Output: Printer Reflective System FRS06a

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

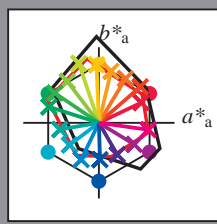
$$HIC^*_e$$

hue text for the colours of this page:

$$H^*_e = R00Y_e, R25Y_e, \dots, B75R_e$$

LRS18a; adapted (a) CIELAB data

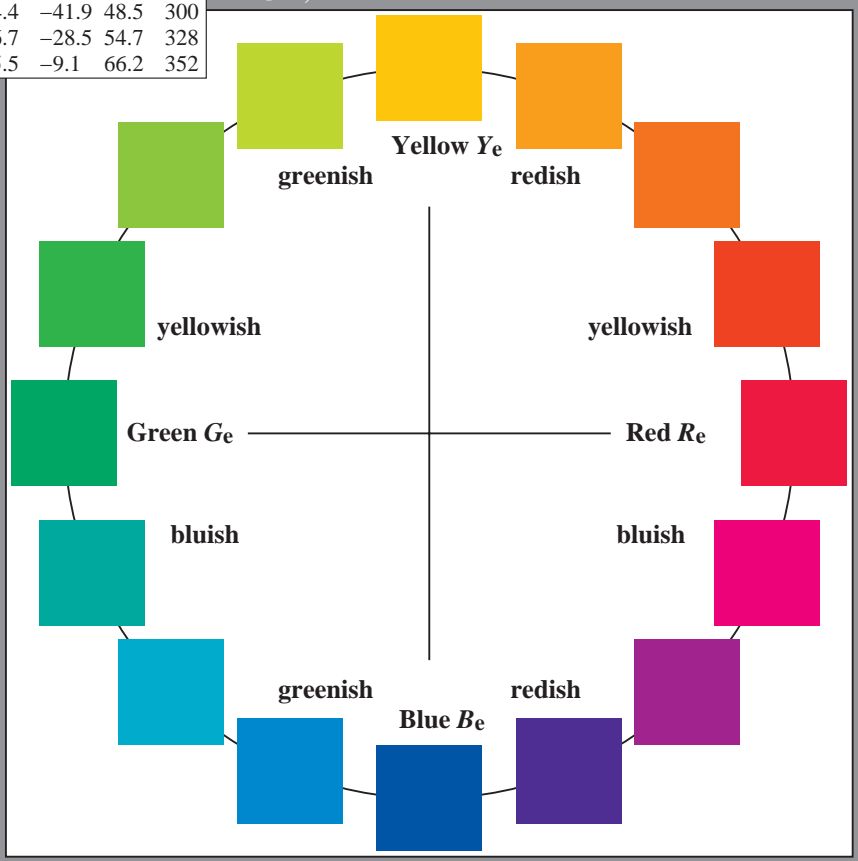
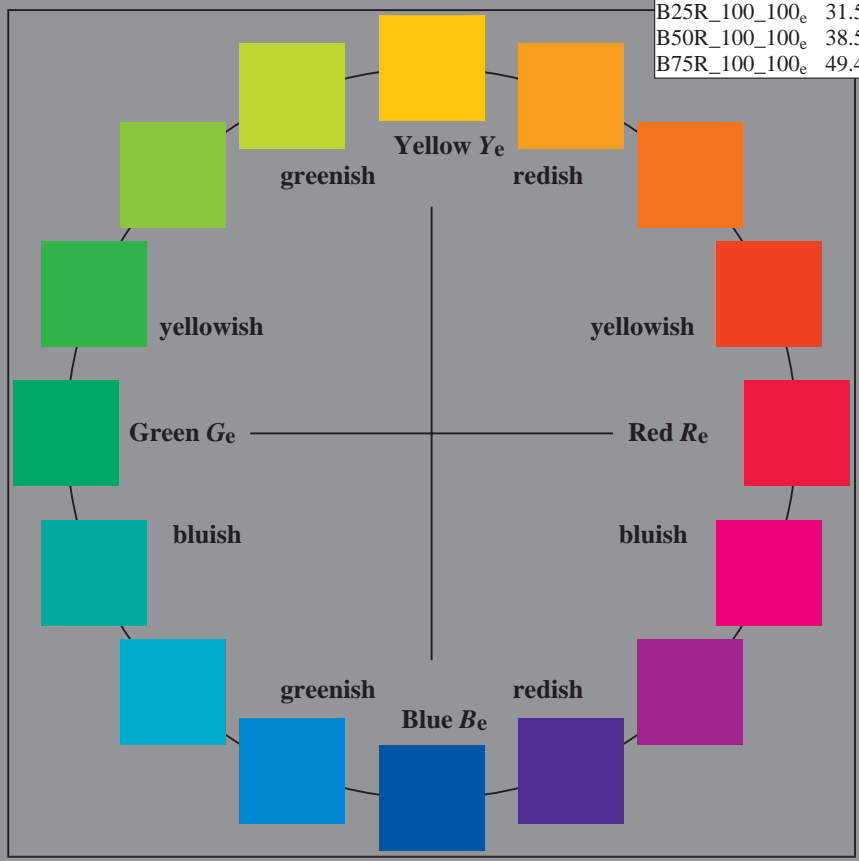
$H^*_e$	$L^*=L^*_a a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100_e	47.5	56.0	26.7	62.1
R25Y_100_100_e	51.4	54.8	47.7	72.6
R50Y_100_100_e	61.8	35.2	58.4	68.2
R75Y_100_100_e	72.3	16.1	68.2	70.1
Y00G_100_100_e	83.6	-3.1	76.8	76.9
Y25G_100_100_e	85.8	-26.4	78.5	82.9
Y50G_100_100_e	71.0	-41.7	54.8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



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

LRS18a; adapted (a) CIELAB data

name	$L^*=L^*_a a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
$R_{e, Ma}$	47.5	56.0	26.7	62.1
$Y_{e, Ma}$	83.6	-3.1	76.8	76.9
$G_{e, Ma}$	53.8	-65.9	21.1	69.2
$C_{e, Ma}$	54.9	-38.7	-29.1	48.4
$B_{e, Ma}$	37.3	1.4	-48.6	48.7
$M_{e, Ma}$	38.5	46.7	-28.5	54.7
$N_{e, Ma}$	23.8	0.0	0.0	0
$W_{e, Ma}$	95.8	0.0	0.0	0
$R_{e, CIE}$	39.9	58.7	27.9	65.0
$Y_{e, CIE}$	81.2	-2.8	71.5	71.6
$G_{e, CIE}$	52.2	-42.4	13.6	44.5
$B_{e, CIE}$	30.5	1.4	-46.4	46.4



1-013130-L0 PE890-71

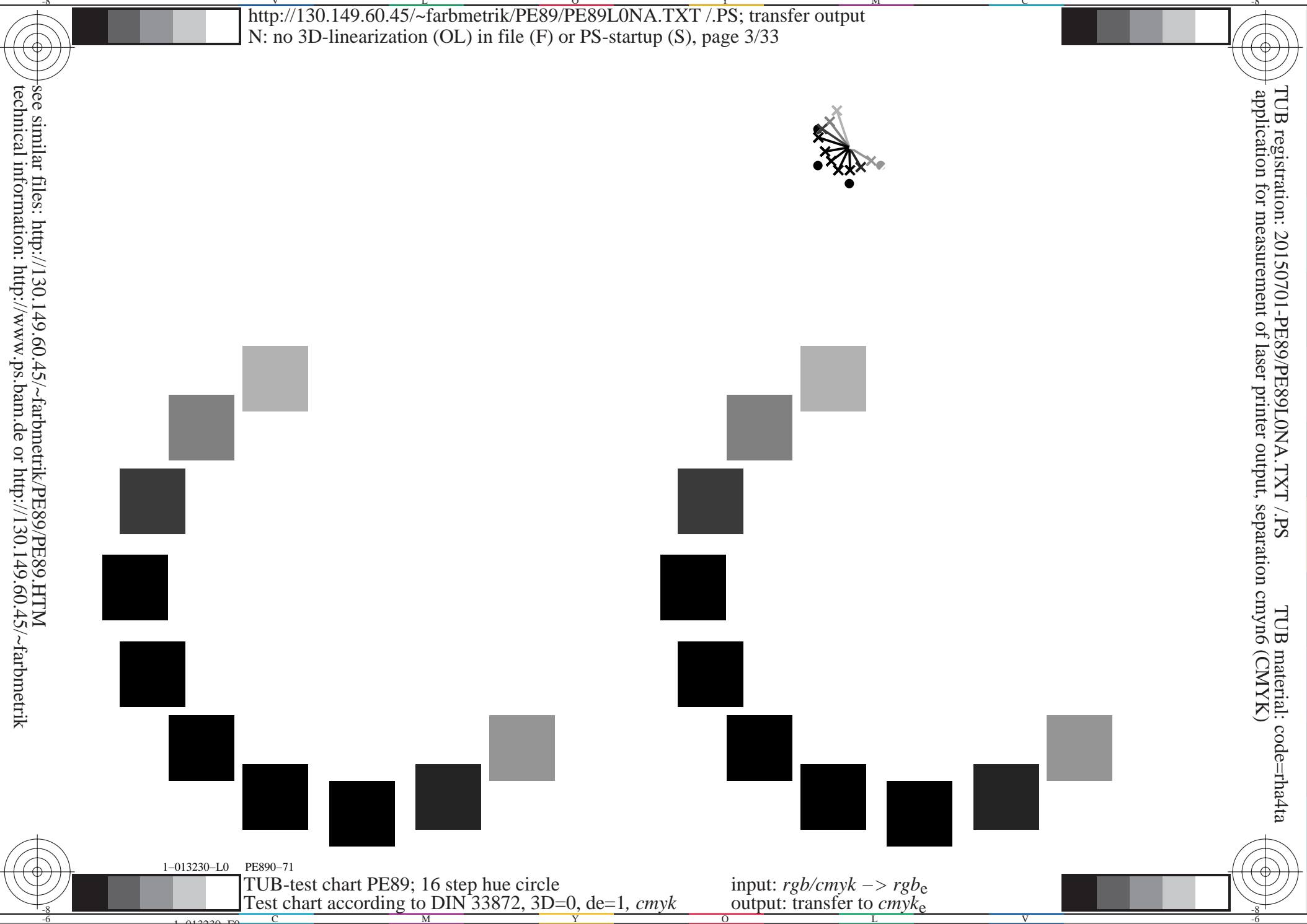
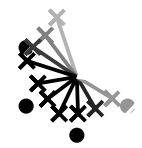
TUB-test chart PE89; 16 step hue circle  
Test chart according to DIN 33872, 3D=0, de=1, cmyk

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

1-013130-F0

TUB registration: 20150701-PE89/PE89L0NA.TXT /PS  
 application for measurement of laser printer output, separation cmyk6 (CMYK)  
 TUB material: code=rh4ta

see similar files: <http://130.149.60.45/~farbmetrik/PE89/PE89.HTM>  
 technical information: <http://www.ps.bam.de> or <http://130.149.60.45/~farbmetrik>

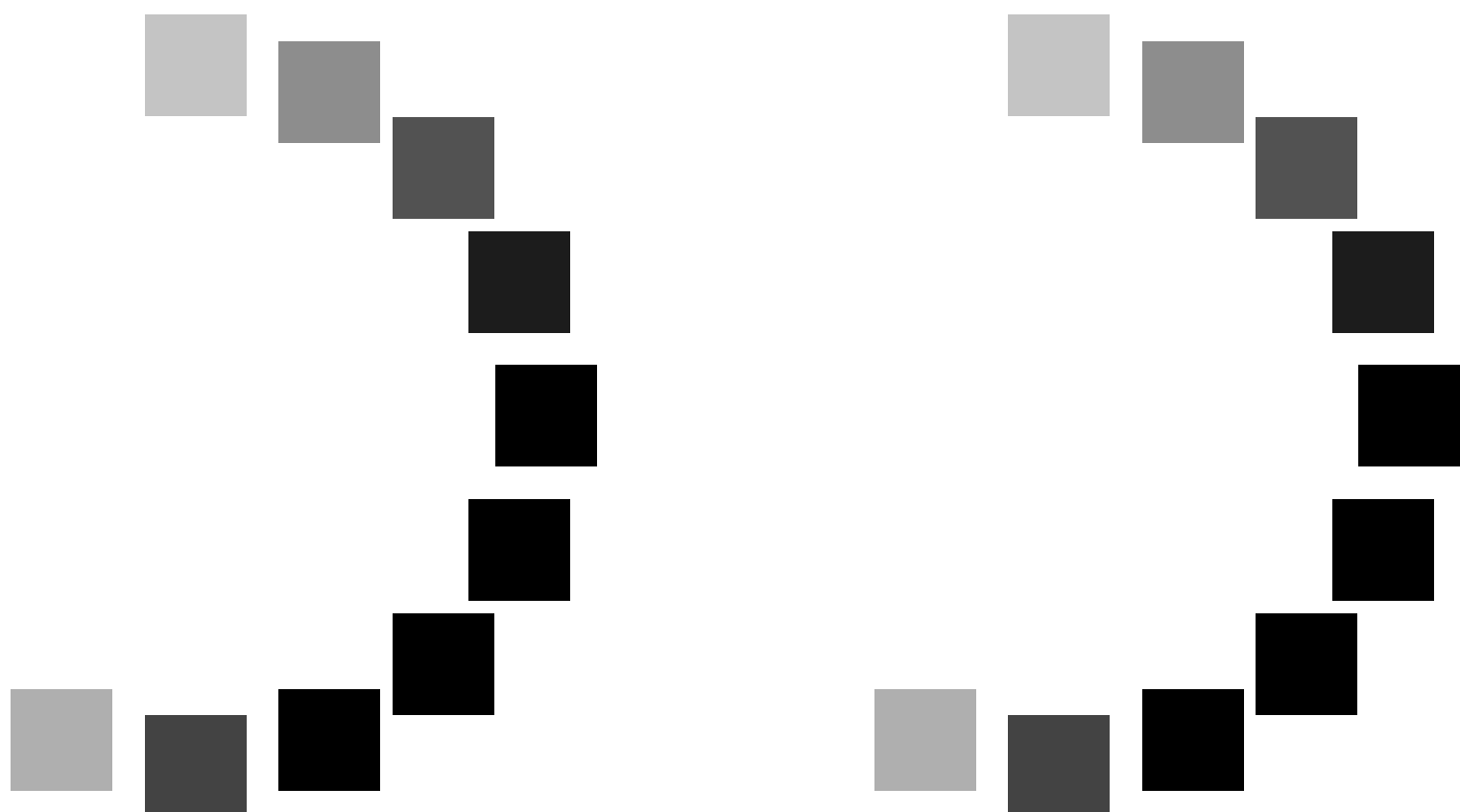
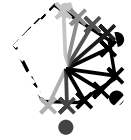


1-013230-L0 PE890-71

TUB-test chart PE89; 16 step hue circle  
Test chart according to DIN 33872, 3D=0, de=1, cmyk

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

1-013230-F0



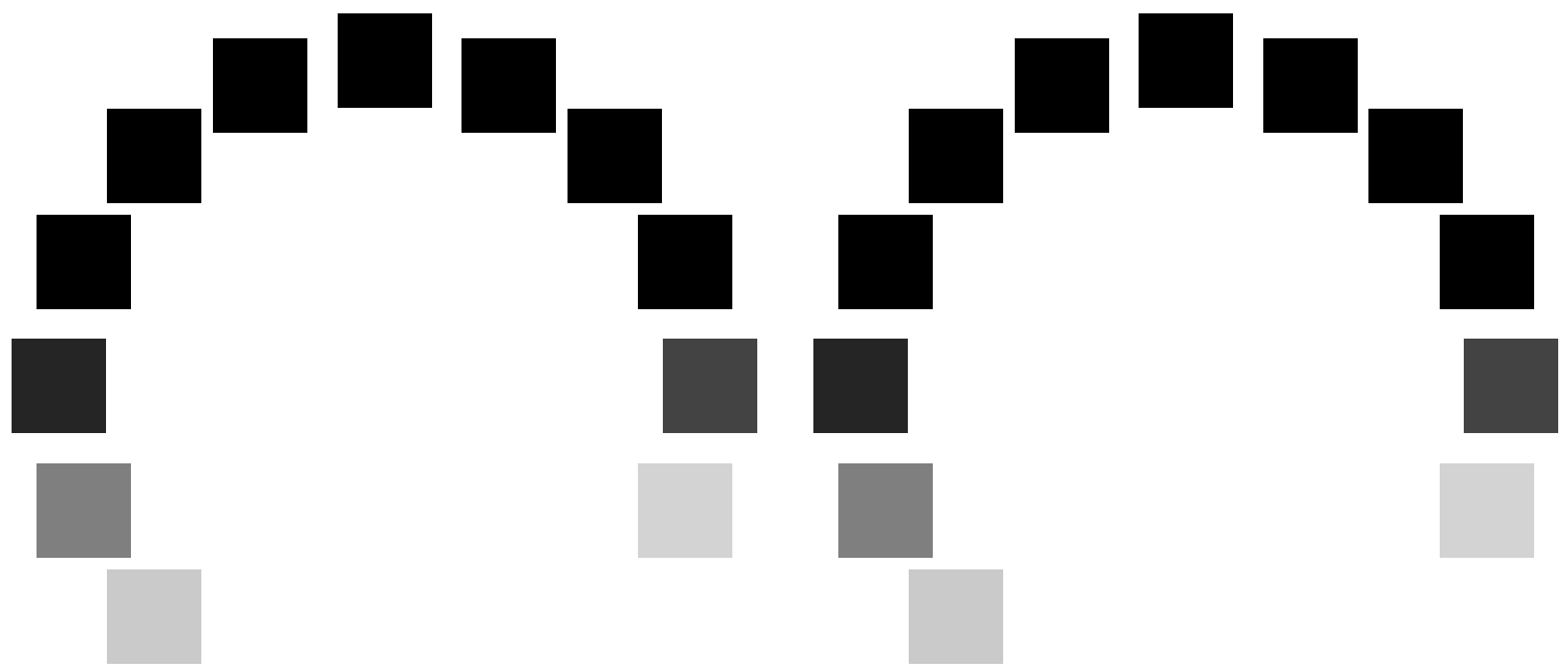
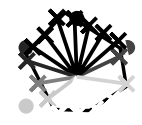
1-013330-L0 PE890-71

TUB-test chart PE89; 16 step hue circle  
Test chart according to DIN 33872, 3D=0, de=1, cmyk

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



1-013330-F0



1-013430-L0 PE890-71

TUB-test chart PE89; 16 step hue circle  
Test chart according to DIN 33872, 3D=0, de=1, cmyk

input: *rgb/cmyk* -> *rgb<sub>e</sub>*  
output: transfer to *cmyk<sub>e</sub>*

1-013430-F0

Input and Output: Printer Reflective System FRS06a

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

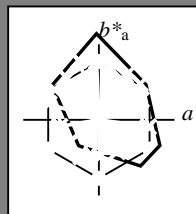
$HIC^*_e$

hue text for the colours of this page:

$H^*_e = R00Y_e, R25Y_e, \dots, B75R_e$

LRS18a; adapted (a) CIELAB data

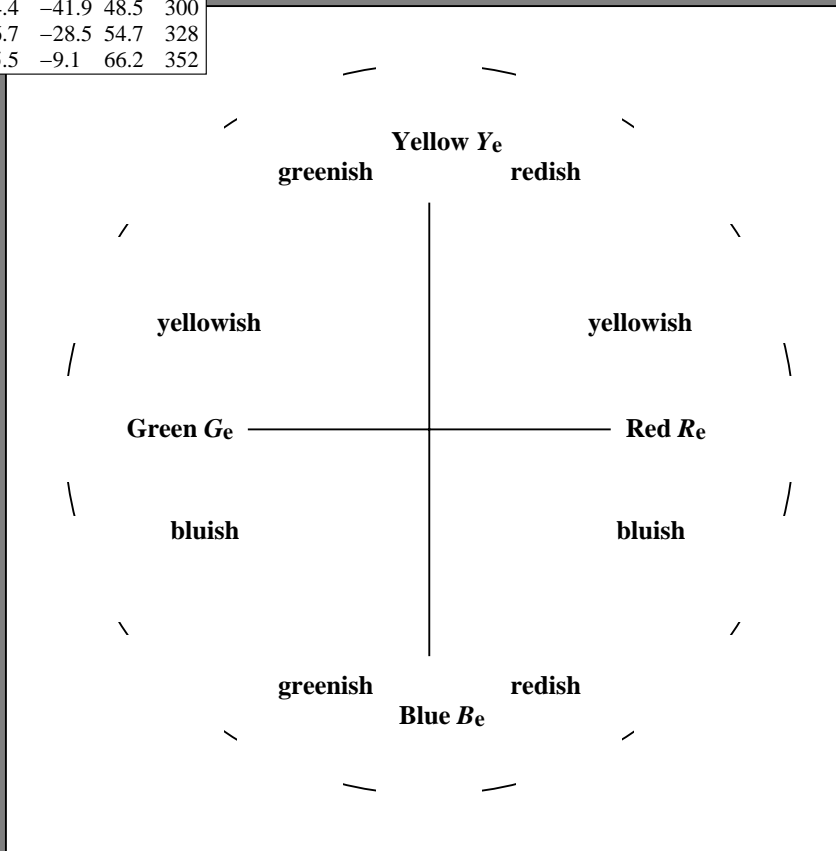
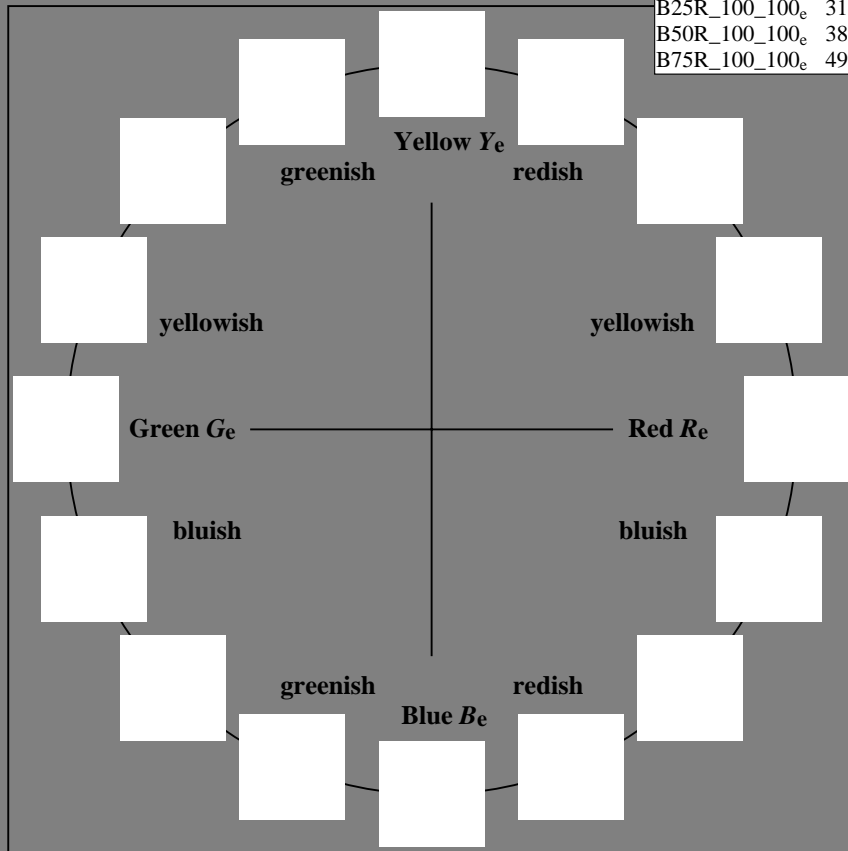
$H^*_e$	$L^*=L^*_a a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R00Y_100_100 <sub>e</sub>	47.5	56.0	26.7	62.1
R25Y_100_100 <sub>e</sub>	51.4	54.8	47.7	72.6
R50Y_100_100 <sub>e</sub>	61.8	35.2	58.4	68.2
R75Y_100_100 <sub>e</sub>	72.3	16.1	68.2	70.1
Y00G_100_100 <sub>e</sub>	83.6	-3.1	76.8	76.9
Y25G_100_100 <sub>e</sub>	85.8	-26.4	78.5	82.9
Y50G_100_100 <sub>e</sub>	71.0	-41.7	54.8	68.9
Y75G_100_100 <sub>e</sub>	59.9	-58.2	39.3	70.2
G00B_100_100 <sub>e</sub>	53.8	-65.9	21.1	69.2
G25B_100_100 <sub>e</sub>	55.0	-51.6	-8.7	52.3
G50B_100_100 <sub>e</sub>	54.9	-38.7	-29.1	48.4
G75B_100_100 <sub>e</sub>	51.7	-23.3	-48.6	53.9
B00R_100_100 <sub>e</sub>	37.3	1.4	-48.6	48.7
B25R_100_100 <sub>e</sub>	31.5	24.4	-41.9	48.5
B50R_100_100 <sub>e</sub>	38.5	46.7	-28.5	54.7
B75R_100_100 <sub>e</sub>	49.4	65.5	-9.1	66.2



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

LRS18a; adapted (a) CIELAB data

name	$L^*=L^*_a a^*_a$	$b^*_a$	$C^*_{ab,a}$	$h^*_{ab,a}$
R <sub>e,Ma</sub>	47.5	56.0	26.7	62.1
Y <sub>e,Ma</sub>	83.6	-3.1	76.8	76.9
G <sub>e,Ma</sub>	53.8	-65.9	21.1	69.2
C <sub>e,Ma</sub>	54.9	-38.7	-29.1	48.4
B <sub>e,Ma</sub>	37.3	1.4	-48.6	48.7
M <sub>e,Ma</sub>	38.5	46.7	-28.5	54.7
N <sub>e,Ma</sub>	23.8	0.0	0.0	0
W <sub>e,Ma</sub>	95.8	0.0	0.0	0
R <sub>e,CIE</sub>	39.9	58.7	27.9	65.0
Y <sub>e,CIE</sub>	81.2	-2.8	71.5	71.6
G <sub>e,CIE</sub>	52.2	-42.4	13.6	44.5
B <sub>e,CIE</sub>	30.5	1.4	-46.4	46.4



1-013530-L0 PE890-71

TUB-test chart PE89; 16 step hue circle  
 Test chart according to DIN 33872, 3D=0, de=1, cmyk

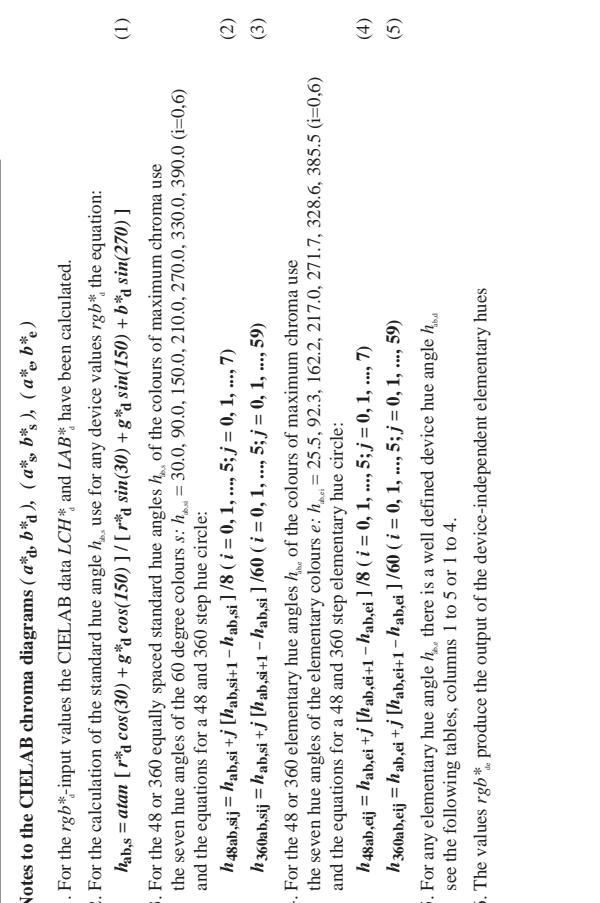
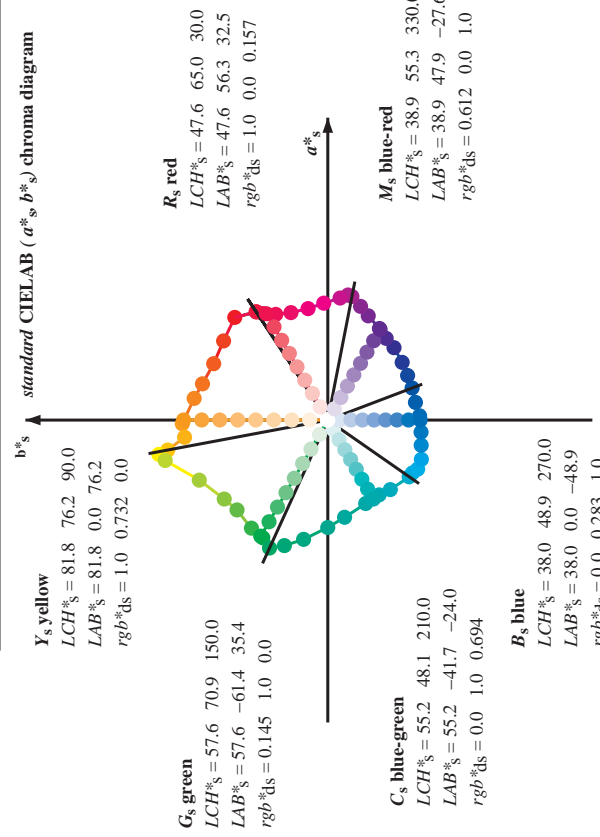
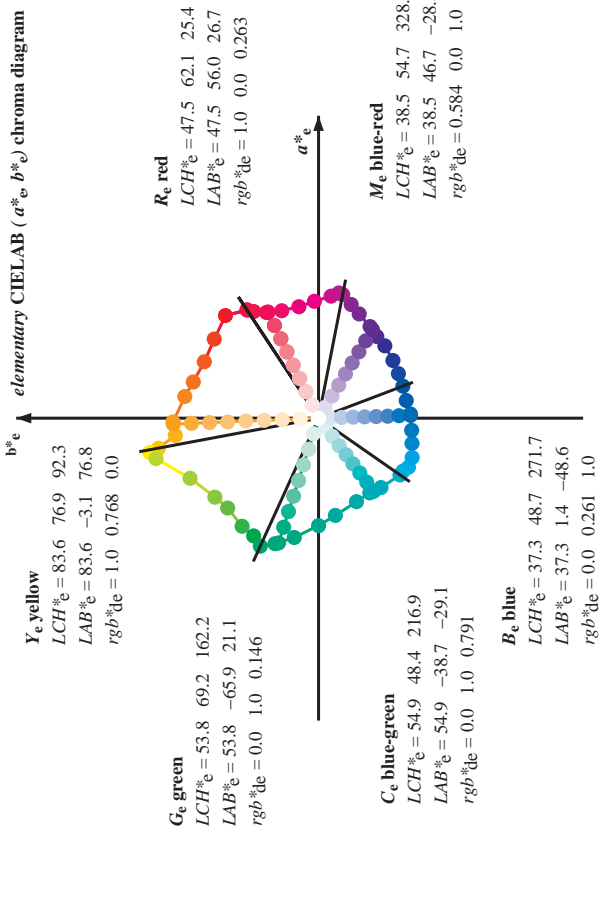
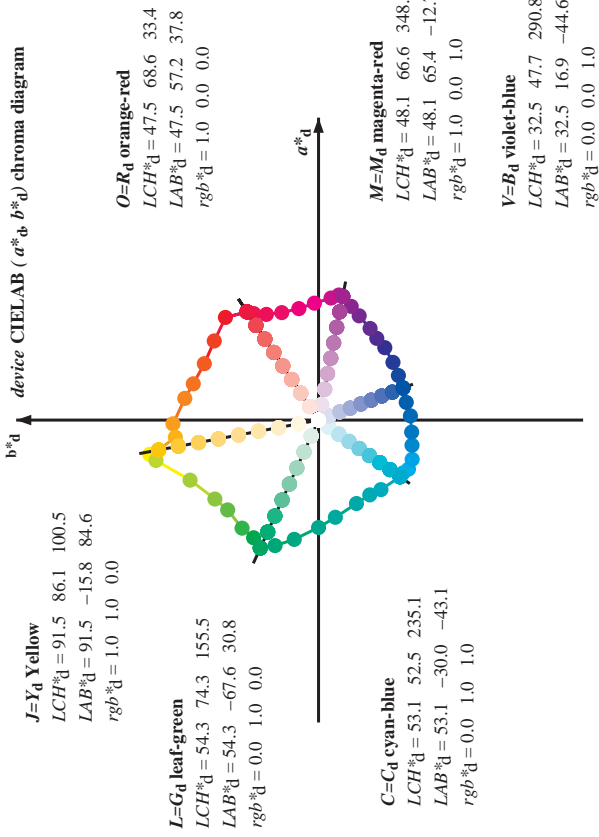
input:  $rgb/cmyk \rightarrow rgb_e$   
 output: transfer to  $cmyk_e$

1-013530-F0



http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /PS; transfer output  
 N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 7/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk6\*, D65 for input or output; Six hue angles of the 60 degree standard colours RYGBCM;  $h_{abs,d} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
 Six hue angles of the device colours RYGBCM;  $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six hue angles of the elementary colours RYGBCM;  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$



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

http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 8/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk6; D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; h\_ab,d65 = 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, 92.3, 162.2, 217.0, 271.7, 328.6

Table with columns: h\_ab,d, h\_ab,s, h\_ab,e, LAB\* d64M, LAB\* d65, LAB\* d66, LAB\* d67, LAB\* d68, LAB\* d69, LAB\* d70, LAB\* d71, LAB\* d72, LAB\* d73, LAB\* d74, LAB\* d75, LAB\* d76, LAB\* d77, LAB\* d78, LAB\* d79, LAB\* d80, LAB\* d81, LAB\* d82, LAB\* d83, LAB\* d84, LAB\* d85, LAB\* d86, LAB\* d87, LAB\* d88, LAB\* d89, LAB\* d90, LAB\* d91, LAB\* d92, LAB\* d93, LAB\* d94, LAB\* d95, LAB\* d96, LAB\* d97, LAB\* d98, LAB\* d99, LAB\* d100. Rows contain numerical data for each color and angle.

Input: Laser printer output; separation cmyk6; D65, page 8/36 Output: Laser printer output; separation cmyk6; D65, page 8/36

http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output  
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 9/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk6; D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM(d):  $h_{ab,d} = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0$ ;  
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):  $h_{ab,c} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_{dd64M}$	$rgb^*_{dd64M}$	$rgb^*_{dd64M}$	$LAB^*_{dx64M}$ (x=LabCh)	$LAB^*_{dx30IM}$	$LAB^*_{dx36IM}$	$rgb^*_{dd64M}$	$rgb^*_{dd64M}$	$rgb^*_{dd64M}$
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	55.2	-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

Output: Laser printer output; separation cmyk6; D65, page 9/36  
input: rgb/cmyk -> rgb  
output: transfer to cmyk

http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 10/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk6; 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;  $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six hue angles of the elementary colours RYGBM;  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Table with 15 columns: h\_ab,d, h\_ab,s, h\_ab,e, R\_d, R\_g, R\_b, LAB\*\_ds361MI, LAB\*\_ds361MI (x=LabCh), LAB\*\_ds361MI (x=LabCh), R\_g, R\_b, LAB\*\_de361MI, LAB\*\_de361MI (x=LabCh), LAB\*\_de361MI (x=LabCh), R\_g, R\_b, LAB\*\_dd361MI, LAB\*\_dd361MI (x=LabCh), LAB\*\_dd361MI (x=LabCh), R\_g, R\_b, LAB\*\_dg361MI, LAB\*\_dg361MI (x=LabCh), LAB\*\_dg361MI (x=LabCh)

I-013930-L0 PE890-71 LAB\*lab, YN=0%, XY,Znw=3.9, 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 PE89; 16 step hue circle 48 step hue circles; rgb-LabCh\*tables

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

Output: Laser printer output; separation cmyk6; D65; page 10/33







Data of Maximum color, M in colorimetric system Laser printer output, separation cmyk6\*, 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;  $h_{abs,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six hue angles of the elementary colours RYGBM;  $h_{abs,d} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

Table with 16 columns: h\_ab,d, h\_ab,s, h\_ab,e, Lab\*\_ds361M, Lab\*\_ds361M, Lab\*\_ds361M(x=LabCh), Lab\*\_ds361M(x=LabCh), Lab\*\_ds361M(x=LabCh), Lab\*\_ds361M(x=LabCh), Lab\*\_ds361M(x=LabCh), Lab\*\_ds361M(x=LabCh), Lab\*\_ds361M(x=LabCh), Lab\*\_ds361M(x=LabCh), Lab\*\_ds361M(x=LabCh), Lab\*\_ds361M(x=LabCh), Lab\*\_ds361M(x=LabCh), Lab\*\_ds361M(x=LabCh). Rows 127-168.

Input: rgb/cmyk -> rgbe  
Output: transfer to cmyke  
Output: Laser printer output, separation cmyk6\*, D65, page 12/63



http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output  
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 14/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk6; 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;  $h_{ab,d} = 33.5, 100.6, 155.5, 235.2, 290.8, 348.9$ ; Six hue angles of the elementary colours RYGBM;  $h_{ab,e} = 25.5, 92.3, 162.2, 217.0, 271.7, 328.6$

$h_{ab,d}$	$h_{ab,s}$	$h_{ab,e}$	$rgb^*_d$	$rgb^*_s$	$rgb^*_e$	$LAB^*_d$	$LAB^*_s$	$LAB^*_e$	$rgb^*_d$	$rgb^*_s$	$rgb^*_e$	$rgb^*_d$	$rgb^*_s$	$rgb^*_e$
$235$	$210$	$216$	$0.0$	$1.0$	$1.0$	$53.1$	$-30.0$	$-43.1$	$52.5$	$235$	$235$	$0.0$	$1.0$	$1.0$
$235$	$211$	$217$	$0.0$	$0.983$	$1.0$	$53.1$	$-29.7$	$-43.3$	$52.5$	$235$	$235$	$0.0$	$1.0$	$1.0$
$235$	$212$	$218$	$0.0$	$0.966$	$1.0$	$53.1$	$-29.4$	$-43.5$	$52.5$	$235$	$235$	$0.0$	$1.0$	$1.0$
$236$	$213$	$219$	$0.0$	$0.95$	$1.0$	$53.1$	$-29.2$	$-43.7$	$52.6$	$236$	$236$	$0.0$	$1.0$	$1.0$
$236$	$214$	$220$	$0.0$	$0.933$	$1.0$	$53.1$	$-28.9$	$-43.9$	$52.6$	$236$	$236$	$0.0$	$1.0$	$1.0$
$237$	$215$	$221$	$0.0$	$0.916$	$1.0$	$53.1$	$-28.6$	$-44.2$	$52.6$	$237$	$237$	$0.0$	$1.0$	$1.0$
$237$	$216$	$222$	$0.0$	$0.9$	$1.0$	$53.1$	$-28.3$	$-44.4$	$52.7$	$237$	$237$	$0.0$	$1.0$	$1.0$
$237$	$217$	$223$	$0.0$	$0.883$	$1.0$	$53.1$	$-28.1$	$-44.6$	$52.7$	$237$	$237$	$0.0$	$1.0$	$1.0$
$238$	$218$	$224$	$0.0$	$0.866$	$1.0$	$53.0$	$-27.8$	$-44.9$	$52.8$	$238$	$238$	$0.0$	$1.0$	$1.0$
$238$	$219$	$225$	$0.0$	$0.85$	$1.0$	$53.0$	$-27.5$	$-45.3$	$53.0$	$238$	$238$	$0.0$	$1.0$	$1.0$
$239$	$220$	$226$	$0.0$	$0.833$	$1.0$	$53.0$	$-27.3$	$-45.6$	$53.2$	$239$	$239$	$0.0$	$1.0$	$1.0$
$239$	$221$	$227$	$0.0$	$0.816$	$1.0$	$53.0$	$-27.0$	$-46.0$	$53.4$	$239$	$239$	$0.0$	$1.0$	$1.0$
$240$	$222$	$227$	$0.0$	$0.8$	$1.0$	$52.9$	$-26.7$	$-46.4$	$53.6$	$240$	$240$	$0.0$	$1.0$	$1.0$
$240$	$223$	$228$	$0.0$	$0.783$	$1.0$	$52.9$	$-26.5$	$-46.8$	$53.8$	$240$	$240$	$0.0$	$1.0$	$1.0$
$241$	$224$	$229$	$0.0$	$0.766$	$1.0$	$52.9$	$-26.2$	$-47.2$	$53.9$	$241$	$241$	$0.0$	$1.0$	$1.0$
$241$	$225$	$230$	$0.0$	$0.75$	$1.0$	$52.9$	$-25.9$	$-47.5$	$54.1$	$241$	$241$	$0.0$	$1.0$	$1.0$
$242$	$226$	$231$	$0.0$	$0.733$	$1.0$	$52.6$	$-25.2$	$-47.8$	$54.1$	$242$	$242$	$0.0$	$1.0$	$1.0$
$242$	$227$	$232$	$0.0$	$0.716$	$1.0$	$52.2$	$-24.5$	$-48.1$	$54.0$	$242$	$242$	$0.0$	$1.0$	$1.0$
$243$	$228$	$233$	$0.0$	$0.7$	$1.0$	$51.9$	$-23.9$	$-48.4$	$54.0$	$243$	$243$	$0.0$	$1.0$	$1.0$
$244$	$229$	$234$	$0.0$	$0.683$	$1.0$	$51.6$	$-23.2$	$-48.6$	$53.9$	$244$	$244$	$0.0$	$1.0$	$1.0$
$245$	$230$	$235$	$0.0$	$0.666$	$1.0$	$51.3$	$-22.5$	$-48.9$	$53.8$	$245$	$245$	$0.0$	$1.0$	$1.0$
$246$	$231$	$236$	$0.0$	$0.65$	$1.0$	$51.0$	$-21.8$	$-49.1$	$53.8$	$246$	$246$	$0.0$	$1.0$	$1.0$
$246$	$232$	$237$	$0.0$	$0.633$	$1.0$	$50.7$	$-21.1$	$-49.4$	$53.7$	$246$	$246$	$0.0$	$1.0$	$1.0$
$247$	$233$	$237$	$0.0$	$0.616$	$1.0$	$50.2$	$-20.2$	$-49.5$	$53.5$	$247$	$247$	$0.0$	$1.0$	$1.0$
$248$	$234$	$238$	$0.0$	$0.6$	$1.0$	$49.7$	$-19.2$	$-49.6$	$53.2$	$248$	$248$	$0.0$	$1.0$	$1.0$
$249$	$235$	$239$	$0.0$	$0.583$	$1.0$	$49.1$	$-18.2$	$-49.6$	$52.8$	$249$	$249$	$0.0$	$1.0$	$1.0$
$250$	$236$	$240$	$0.0$	$0.566$	$1.0$	$48.5$	$-17.2$	$-49.6$	$52.5$	$250$	$250$	$0.0$	$1.0$	$1.0$
$251$	$237$	$241$	$0.0$	$0.55$	$1.0$	$47.9$	$-16.2$	$-49.5$	$52.2$	$251$	$251$	$0.0$	$1.0$	$1.0$
$252$	$238$	$242$	$0.0$	$0.533$	$1.0$	$47.3$	$-15.2$	$-49.5$	$51.8$	$252$	$252$	$0.0$	$1.0$	$1.0$
$253$	$239$	$243$	$0.0$	$0.516$	$1.0$	$46.7$	$-14.3$	$-49.4$	$51.5$	$253$	$253$	$0.0$	$1.0$	$1.0$
$254$	$240$	$244$	$0.0$	$0.5$	$1.0$	$46.1$	$-13.3$	$-49.4$	$51.1$	$254$	$254$	$0.0$	$1.0$	$1.0$
$255$	$241$	$245$	$0.0$	$0.483$	$1.0$	$45.5$	$-12.3$	$-49.4$	$50.9$	$255$	$255$	$0.0$	$1.0$	$1.0$
$256$	$242$	$246$	$0.0$	$0.466$	$1.0$	$44.8$	$-11.4$	$-49.4$	$50.7$	$256$	$256$	$0.0$	$1.0$	$1.0$
$258$	$243$	$247$	$0.0$	$0.45$	$1.0$	$44.2$	$-10.5$	$-49.4$	$50.5$	$258$	$258$	$0.0$	$1.0$	$1.0$
$259$	$244$	$248$	$0.0$	$0.433$	$1.0$	$43.6$	$-9.5$	$-49.4$	$50.3$	$259$	$259$	$0.0$	$1.0$	$1.0$
$260$	$245$	$248$	$0.0$	$0.416$	$1.0$	$42.9$	$-8.6$	$-49.4$	$50.1$	$260$	$260$	$0.0$	$1.0$	$1.0$
$261$	$246$	$249$	$0.0$	$0.4$	$1.0$	$42.3$	$-7.7$	$-49.3$	$49.9$	$261$	$261$	$0.0$	$1.0$	$1.0$
$262$	$247$	$250$	$0.0$	$0.383$	$1.0$	$41.7$	$-6.8$	$-49.3$	$49.7$	$262$	$262$	$0.0$	$1.0$	$1.0$
$263$	$248$	$251$	$0.0$	$0.366$	$1.0$	$41.1$	$-5.7$	$-49.2$	$49.6$	$263$	$263$	$0.0$	$1.0$	$1.0$
$264$	$249$	$252$	$0.0$	$0.35$	$1.0$	$40.5$	$-4.6$	$-49.2$	$49.4$	$264$	$264$	$0.0$	$1.0$	$1.0$
$265$	$250$	$253$	$0.0$	$0.333$	$1.0$	$39.9$	$-3.4$	$-49.2$	$49.3$	$265$	$265$	$0.0$	$1.0$	$1.0$
$267$	$251$	$254$	$0.0$	$0.316$	$1.0$	$39.3$	$-2.3$	$-49.1$	$49.1$	$267$	$267$	$0.0$	$1.0$	$1.0$
$268$	$252$	$255$	$0.0$	$0.3$	$1.0$	$38.7$	$-1.1$	$-49.0$	$49.0$	$268$	$268$	$0.0$	$1.0$	$1.0$
$269$	$253$	$256$	$0.0$	$0.283$	$1.0$	$38.1$	$0.0$	$-48.9$	$48.9$	$269$	$269$	$0.0$	$1.0$	$1.0$
$271$	$254$	$257$	$0.0$	$0.266$	$1.0$	$37.4$	$1.1$	$-48.7$	$48.7$	$271$	$271$	$0.0$	$1.0$	$1.0$
$272$	$255$	$258$	$0.0$	$0.25$	$1.0$	$36.8$	$2.2$	$-48.5$	$48.6$	$272$	$272$	$0.0$	$1.0$	$1.0$

LAB\* $h_{ab}$ , YN=0%, XYZnw=3.9, 4.1, 84.7, 89.6, 93.9, LAB\* $nw$ =23.9, 0.0, 0.0, 95.8, 0.0, 0.0  
input: rgb/cmyk -> rgb  
output: transfer to cmyk



http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 16/33

Data of Maximum color, M in colorimetric system Laser printer output; separation cmyk6; D65 for input or output; Six hue angles of the 60 degree standard colours RYGBM; h\_ab,d65 = 30.0, 90.0, 150.0, 210.0, 270.0, 330.0;

Table with columns for hue angles (324-354), device colours (LAB\*, dks361MI, dsx361MI, dds361MI, rgb\*), and standard colours (LAB\*, dex361MI, de361MI, dd361MI, rgb\*). The table contains numerical data for each parameter across the specified hue angles.

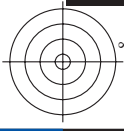
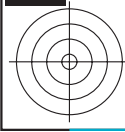
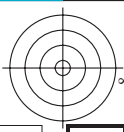
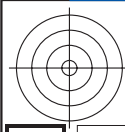
I=0131530-L0 PE890-71 LAB\*lab0, YN=0%, XY,Znw=3.9, 4.1, 84.7, 89.6, 93.9, LAB\*mnw=23.9, 0.0, 0.0, 95.8, 0.0, 0.0 input: rgb/cmyk -> rgbe output: transfer to cmyke











http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 19/33

Table with columns: nuf, HHC\*Fe, rgb\*Fe, icr\*Fe, hsa\*Fe, LabCh\*Fe, rgb\*Fe, LabCh\*Fe, DE\*Fe, Hsa\*Fe, rgb\*Fe, LabCh\*Fe, DE\*Fe, Hsa\*Fe, rgb\*Fe, LabCh\*Fe, DE\*Fe, Hsa\*Fe, rgb\*Fe, LabCh\*Fe, DE\*Fe, Hsa\*Fe. Rows include various color patches like 0/668 R00Y\_100\_100k, 1/668 R25Y\_100\_100k, etc.

Mean color difference of this page: delta E\* = 12.1

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

TUB-test chart PE89; 16 step hue circle colors and differences, ΔE\*

http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output  
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 20/33

n/F	HC*Fe	rgb*Fe	LabCH*Fe	LabCH*Fe	rgb*Fe	LabCH*Fe	DF*Fe	Ha*Me	rgb*Me	LabCH*Me	DF*Me
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
54	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
74	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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

PE890-7N, Page 20/33-F

TUB-test chart PE89; 16 step hue circle  
colors and differences, ΔE\*

I=10131930-F0

http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 21/33

Table with 16 columns: n, HHC\*Fe, rpb\*Fe, icr\*Fe, hsa\*Fe, LabCH\*Fe, rpb\*Fe, LabCH\*Fe, rpb\*Fe, LabCH\*Fe, DF\*Fe, hsa\*Fe, rpb\*Fe, LabCH\*Fe, LabCH\*Fe, LabCH\*Fe. Rows 81-161.

Mean color difference of this page:

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

PE890-7N, Page 21/33-F

TUB-test chart PE89; 16 step hue circle colors and differences, ΔE\*

http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 22/33

Table with 16 columns: n, HHC\*Fe, rpb\*Fe, icr\*Fe, hsa\*Fe, rpb\*Fe, LabCh\*Fe, LabCh\*Fe, rpb\*Fe, DE\*Fe, hsa\*Fe, rpb\*Fe, LabCh\*Fe, LabCh\*Fe, rpb\*Fe, LabCh\*Fe. Rows 162-242.

Mean color difference of this page: delta E\* = 11.0

TUB-test chart PE89; 16 step hue circle colors and differences, ΔE\*

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

http://130.149.60.45/~farbmtrik/PE89/PE89LONA.TXT /PS; transfer output  
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 23/33

Table with 16 columns: n, HHC\*Fe, rgb\*Fe, iet\*Fe, Hs\*Fe, rgb\*Fe, LabCh\*Fe, LabCh\*Fe, LabCh\*Fe, DFE\*Fe, Hs\*Fe, rgb\*Fe, LabCh\*Fe, LabCh\*Fe, LabCh\*Fe. Rows 243-523. Includes delta E\* = 10.9 and Mean color difference of this page: 20.6.

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

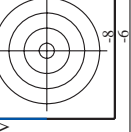
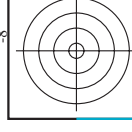
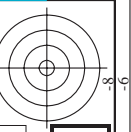
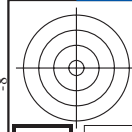
TUB-test chart PE89; 16 step hue circle  
colors and differences, ΔE\*



http://130.149.60.45/~farbmatrik/PE89/PE89LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 24/33

Table with 16 columns: n, HHC\*Fe, rpb\*Fe, icr\*Fe, hsa\*Fe, rpb\*Fe, LabC\*Fe, LabM\*Fe, LabY\*Fe, LabC\*Fe, rpb\*Fe, DE\*Fe, hsa\*Fe, LabC\*Fe, LabM\*Fe, LabY\*Fe. It contains a large grid of numerical data for color calibration.

input: rgb/cmyk -> rgbe output: transfer to cmyke Mean color difference of this page: delta E\* = 10.9



http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 25/33

Table with 10 columns: n, HHC\*Fe, rgb\*Fe, icr\*Fe, Hs\*Fe, rgb\*Fe, LabCh\*Fe, LabCh\*Fe, DE\*Fe, Ham\*Fe, rgb\*Fe, LabCh\*Fe, and 25.4. It contains a large grid of numerical data for various color patches.

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

TUB-test chart PE89; 16 step hue circle colors and differences, ΔE\*

http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 26/33

Table with 16 columns: n, HHC%Fe, rpb%Fe, icr%Fe, hsa%Fe, rpb%Fe, LabCH%Fe, LabCH%Fe, rpb%Fe, DF%Fe, hsa%Fe, LabCH%Fe, rpb%Fe, LabCH%Fe, rpb%Fe, LabCH%Fe. Rows 486-566.

input: rgb/cmyk -> rgbe output: transfer to cmyke Mean color difference of this page: delta E\* = 12.4

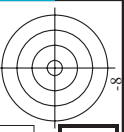
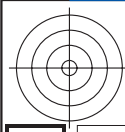
http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 27/33

Table with 15 columns: n, HHC\*Fe, rpb\*Fe, icr\*Fe, Hs\*Fe, rpb\*Fe, LabC\*Fe, LabM\*Fe, LabY\*Fe, LabC\*Fe, rpb\*Fe, DF\*Fe, Hs\*Fe, LabC\*Fe, LabM\*Fe, LabY\*Fe. Rows 567-647.

Mean color difference of this page: delta E\* = 13.7

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

TUB-test chart PE89; 16 step hue circle colors and differences, ΔE\*



http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 28/33

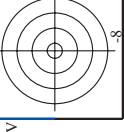
Table with 19 columns: n, HHC\*Fe, rgp\*Fe, icr\*Fe, Hs\*Fe, LabCh\*Fe, rgp\*Fe, LabCh\*Fe, DF\*Fe, Hs\*Me, rgp\*Me, LabCh\*Me, 254, 621, 621, 254. Rows contain color calibration data for various color patches.

Mean color difference of this page:

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

PE890-7N, Page 28/33-F

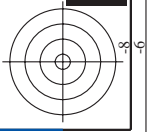
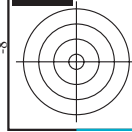
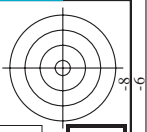
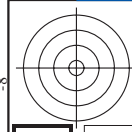
TUB-test chart PE89; 16 step hue circle colors and differences, ΔE\*











http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output  
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 31/33

n	HC*Fe	rgb*Fe	LabCh*Fe	LabCh*Fe	rgb*Fe	LabCh*Fe	DF*Fe	Ha*Me	rgb*Me	LabCh*Me	DF*Me	Ha*Me	
891	NW_100k	1.0	1.0	95.8	1.0	91.4	168.6	0.3	1.0	95.8	0.0	360	
892	B50R_100.012k	1.0	0.875	1.0	0.875	1.0	338.4	3.3	1.0	338.4	0.0	360	
893	B50R_100.025k	1.0	0.75	1.0	0.75	1.0	341.9	6.2	1.0	341.9	0.0	360	
894	B50R_100.037k	1.0	0.625	1.0	0.625	1.0	346.1	14.7	1.0	346.1	0.0	360	
895	B50R_100.050k	1.0	0.5	1.0	0.5	1.0	348.0	18.6	1.0	348.0	0.0	360	
896	B50R_100.062k	1.0	0.375	1.0	0.375	1.0	347.9	22.0	1.0	347.9	0.0	360	
897	B50R_100.075k	1.0	0.25	1.0	0.25	1.0	349.9	28.5	1.0	349.9	0.0	360	
898	B50R_100.087k	1.0	0.125	1.0	0.125	1.0	348.9	26.1	1.0	348.9	0.0	360	
899	B50R_100.100k	1.0	0.0	1.0	0.0	1.0	165.1	2.1	1.0	165.1	0.0	360	
900	GOB1_100.012k	0.875	1.0	0.875	1.0	0.875	1.0	263.1	4.8	1.0	263.1	0.0	360
901	GOB1_100.025k	0.75	1.0	0.75	1.0	0.75	1.0	316.7	8.3	1.0	316.7	0.0	360
902	GOB1_100.037k	0.625	1.0	0.625	1.0	0.625	1.0	336.6	11.6	1.0	336.6	0.0	360
903	GOB1_100.050k	0.5	1.0	0.5	1.0	0.5	340.0	11.6	1.0	340.0	0.0	360	
904	GOB1_100.062k	0.375	1.0	0.375	1.0	0.375	342.2	15.0	1.0	342.2	0.0	360	
905	GOB1_100.075k	0.25	1.0	0.25	1.0	0.25	343.1	17.7	1.0	343.1	0.0	360	
906	GOB1_100.087k	0.125	1.0	0.125	1.0	0.125	343.6	22.2	1.0	343.6	0.0	360	
907	GOB1_100.100k	0.0	1.0	0.0	1.0	0.0	149.3	4.6	1.0	149.3	0.0	360	
908	GOB1_100.012k	0.875	1.0	0.875	1.0	0.875	1.0	263.1	4.8	1.0	263.1	0.0	360
909	GOB1_100.025k	0.75	1.0	0.75	1.0	0.75	1.0	316.7	8.3	1.0	316.7	0.0	360
910	GOB1_100.037k	0.625	1.0	0.625	1.0	0.625	1.0	336.6	11.6	1.0	336.6	0.0	360
911	GOB1_100.050k	0.5	1.0	0.5	1.0	0.5	340.0	11.6	1.0	340.0	0.0	360	
912	GOB1_100.062k	0.375	1.0	0.375	1.0	0.375	342.2	15.0	1.0	342.2	0.0	360	
913	GOB1_100.075k	0.25	1.0	0.25	1.0	0.25	343.1	17.7	1.0	343.1	0.0	360	
914	GOB1_100.087k	0.125	1.0	0.125	1.0	0.125	343.6	22.2	1.0	343.6	0.0	360	
915	GOB1_100.100k	0.0	1.0	0.0	1.0	0.0	149.3	4.6	1.0	149.3	0.0	360	
916	GOB1_100.012k	0.875	1.0	0.875	1.0	0.875	1.0	263.1	4.8	1.0	263.1	0.0	360
917	GOB1_100.025k	0.75	1.0	0.75	1.0	0.75	1.0	316.7	8.3	1.0	316.7	0.0	360
918	GOB1_100.037k	0.625	1.0	0.625	1.0	0.625	1.0	336.6	11.6	1.0	336.6	0.0	360
919	GOB1_100.050k	0.5	1.0	0.5	1.0	0.5	340.0	11.6	1.0	340.0	0.0	360	
920	GOB1_100.062k	0.375	1.0	0.375	1.0	0.375	342.2	15.0	1.0	342.2	0.0	360	
921	GOB1_100.075k	0.25	1.0	0.25	1.0	0.25	343.1	17.7	1.0	343.1	0.0	360	
922	GOB1_100.087k	0.125	1.0	0.125	1.0	0.125	343.6	22.2	1.0	343.6	0.0	360	
923	GOB1_100.100k	0.0	1.0	0.0	1.0	0.0	149.3	4.6	1.0	149.3	0.0	360	
924	GOB1_100.012k	0.875	1.0	0.875	1.0	0.875	1.0	263.1	4.8	1.0	263.1	0.0	360
925	GOB1_100.025k	0.75	1.0	0.75	1.0	0.75	1.0	316.7	8.3	1.0	316.7	0.0	360
926	GOB1_100.037k	0.625	1.0	0.625	1.0	0.625	1.0	336.6	11.6	1.0	336.6	0.0	360
927	GOB1_100.050k	0.5	1.0	0.5	1.0	0.5	340.0	11.6	1.0	340.0	0.0	360	
928	GOB1_100.062k	0.375	1.0	0.375	1.0	0.375	342.2	15.0	1.0	342.2	0.0	360	
929	GOB1_100.075k	0.25	1.0	0.25	1.0	0.25	343.1	17.7	1.0	343.1	0.0	360	
930	GOB1_100.087k	0.125	1.0	0.125	1.0	0.125	343.6	22.2	1.0	343.6	0.0	360	
931	GOB1_100.100k	0.0	1.0	0.0	1.0	0.0	149.3	4.6	1.0	149.3	0.0	360	
932	GOB1_100.012k	0.875	1.0	0.875	1.0	0.875	1.0	263.1	4.8	1.0	263.1	0.0	360
933	GOB1_100.025k	0.75	1.0	0.75	1.0	0.75	1.0	316.7	8.3	1.0	316.7	0.0	360
934	GOB1_100.037k	0.625	1.0	0.625	1.0	0.625	1.0	336.6	11.6	1.0	336.6	0.0	360
935	GOB1_100.050k	0.5	1.0	0.5	1.0	0.5	340.0	11.6	1.0	340.0	0.0	360	
936	GOB1_100.062k	0.375	1.0	0.375	1.0	0.375	342.2	15.0	1.0	342.2	0.0	360	
937	GOB1_100.075k	0.25	1.0	0.25	1.0	0.25	343.1	17.7	1.0	343.1	0.0	360	
938	GOB1_100.087k	0.125	1.0	0.125	1.0	0.125	343.6	22.2	1.0	343.6	0.0	360	
939	GOB1_100.100k	0.0	1.0	0.0	1.0	0.0	149.3	4.6	1.0	149.3	0.0	360	
940	GOB1_100.012k	0.875	1.0	0.875	1.0	0.875	1.0	263.1	4.8	1.0	263.1	0.0	360
941	GOB1_100.025k	0.75	1.0	0.75	1.0	0.75	1.0	316.7	8.3	1.0	316.7	0.0	360
942	GOB1_100.037k	0.625	1.0	0.625	1.0	0.625	1.0	336.6	11.6	1.0	336.6	0.0	360
943	GOB1_100.050k	0.5	1.0	0.5	1.0	0.5	340.0	11.6	1.0	340.0	0.0	360	
944	GOB1_100.062k	0.375	1.0	0.375	1.0	0.375	342.2	15.0	1.0	342.2	0.0	360	
945	GOB1_100.075k	0.25	1.0	0.25	1.0	0.25	343.1	17.7	1.0	343.1	0.0	360	
946	GOB1_100.087k	0.125	1.0	0.125	1.0	0.125	343.6	22.2	1.0	343.6	0.0	360	
947	GOB1_100.100k	0.0	1.0	0.0	1.0	0.0	149.3	4.6	1.0	149.3	0.0	360	
948	GOB1_100.012k	0.875	1.0	0.875	1.0	0.875	1.0	263.1	4.8	1.0	263.1	0.0	360
949	GOB1_100.025k	0.75	1.0	0.75	1.0	0.75	1.0	316.7	8.3	1.0	316.7	0.0	360
950	GOB1_100.037k	0.625	1.0	0.625	1.0	0.625	1.0	336.6	11.6	1.0	336.6	0.0	360
951	GOB1_100.050k	0.5	1.0	0.5	1.0	0.5	340.0	11.6	1.0	340.0	0.0	360	
952	GOB1_100.062k	0.375	1.0	0.375	1.0	0.375	342.2	15.0	1.0	342.2	0.0	360	
953	GOB1_100.075k	0.25	1.0	0.25	1.0	0.25	343.1	17.7	1.0	343.1	0.0	360	
954	GOB1_100.087k	0.125	1.0	0.125	1.0	0.125	343.6	22.2	1.0	343.6	0.0	360	
955	GOB1_100.100k	0.0	1.0	0.0	1.0	0.0	149.3	4.6	1.0	149.3	0.0	360	
956	GOB1_100.012k	0.875	1.0	0.875	1.0	0.875	1.0	263.1	4.8	1.0	263.1	0.0	360
957	GOB1_100.025k	0.75	1.0	0.75	1.0	0.75	1.0	316.7	8.3	1.0	316.7	0.0	360
958	GOB1_100.037k	0.625	1.0	0.625	1.0	0.625	1.0	336.6	11.6	1.0	336.6	0.0	360
959	GOB1_100.050k	0.5	1.0	0.5	1.0	0.5	340.0	11.6	1.0	340.0	0.0	360	
960	GOB1_100.062k	0.375	1.0	0.375	1.0	0.375	342.2	15.0	1.0	342.2	0.0	360	
961	GOB1_100.075k	0.25	1.0	0.25	1.0	0.25	343.1	17.7	1.0	343.1	0.0	360	
962	GOB1_100.087k	0.125	1.0	0.125	1.0	0.125	343.6	22.2	1.0	343.6	0.0	360	
963	GOB1_100.100k	0.0	1.0	0.0	1.0	0.0	149.3	4.6	1.0	149.3	0.0	360	
964	GOB1_100.012k	0.875	1.0	0.875	1.0	0.875	1.0	263.1	4.8	1.0	263.1	0.0	360
965	GOB1_100.025k	0.75	1.0	0.75	1.0	0.75	1.0	316.7	8.3	1.0	316.7	0.0	360
966	GOB1_100.037k	0.625	1.0	0.625	1.0	0.625	1.0	336.6	11.6	1.0	336.6	0.0	360
967	GOB1_100.050k	0.5	1.0	0.5	1.0	0.5	340.0	11.6	1.0	340.0	0.0	360	
968	GOB1_100.062k	0.375	1.0	0.375	1.0	0.375	342.2	15.0	1.0	342.2	0.0	360	
969	GOB1_100.075k	0.25	1.0	0.25	1.0	0.25	343.1	17.7	1.0	343.1	0.0	360	
970	GOB1_100.087k	0.125	1.0	0.125	1.0	0.125	343.6	22.2	1.0	343.6	0.0	360	
971	GOB1_100.100k	0.0	1.0	0.0	1.0	0.0	149.3	4.6	1.0	149.3	0.0	360	

Mean color difference of this page:

delta E\* = 70.5

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

PE890-7N, Page 31/33-F

TUB-test chart PE89; 16 step hue circle  
colors and differences, ΔE\*

I-1033030-F0

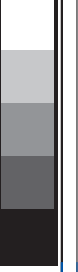
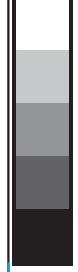
http://130.149.60.45/~farbmetrik/PE89/PE89LONA.TXT /.PS; transfer output N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 32/33

Table with 15 columns: n, HC\*, Fe, rgb\*, LabCH\*, iet\*, Fe, rgb\*, LabCH\*, Hs, Fe, rgb\*, LabCH\*, DPF\*, Hs, Fe, rgb\*, LabCH\*, Yell, and a final column for Delta E\*. The table contains 152 rows of color calibration data for various color patches.

Mean color difference of this page: delta E\* = 3.2

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

TUB-test chart PE89; 16 step hue circle colors and differences, AE\*



http://130.149.60.45/~farbmetrik/PE89/PE89L0NA.TXT /.PS; transfer output  
 N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 33/33

n	HC*Fe	rgb*Fe	icT_Fe	hs_LFe	rgb*Fe	LabCH*Fe	hs_Me	rgb*Fe	LabCH*Fe	DF*Fe	hs_Me	rgb*Me	LabCH*Me
1053	NW_086e	0.866	0.866	0.866	0.866	86.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1054	NW_093e	0.933	0.933	0.933	0.933	91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1055	NW_100e	1.0	1.0	1.0	1.0	95.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1056	NW_006e	0.066	0.066	0.066	0.066	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1057	NW_013e	0.133	0.133	0.133	0.133	33.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1058	NW_020e	0.2	0.2	0.2	0.2	38.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1059	NW_026e	0.266	0.266	0.266	0.266	42.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1060	NW_033e	0.333	0.333	0.333	0.333	47.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1061	NW_040e	0.4	0.4	0.4	0.4	52.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1062	NW_046e	0.466	0.466	0.466	0.466	57.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1063	NW_053e	0.533	0.533	0.533	0.533	62.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1064	NW_059e	0.593	0.593	0.593	0.593	67.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1065	NW_066e	0.666	0.666	0.666	0.666	71.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1066	NW_073e	0.734	0.734	0.734	0.734	76.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1067	NW_080e	0.8	0.8	0.8	0.8	81.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1068	NW_086e	0.866	0.866	0.866	0.866	86.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1069	NW_093e	0.933	0.933	0.933	0.933	91.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1070	NW_100e	1.0	1.0	1.0	1.0	95.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1071	NW_006e	0.066	0.066	0.066	0.066	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1072	NW_010e	0.1	0.1	0.1	0.1	33.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1073	ROXY_100_100e	1.0	1.0	1.0	1.0	95.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1074	ROXY_100_100e	1.0	1.0	1.0	1.0	95.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1075	Y06B_100_100e	0.0	1.0	1.0	0.0	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1076	Y06B_100_100e	0.0	1.0	1.0	0.0	33.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1077	B06B_100_100e	0.0	0.0	1.0	0.0	48.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1078	B06B_100_100e	0.0	0.0	1.0	0.0	53.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1079	B50B_100_100e	0.0	0.0	1.0	0.0	58.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1079	B50B_100_100e	1.0	0.0	1.0	0.0	38.5	46.7	-28.5	54.7	328.6	328.6	328.6	328.6

Mean color difference of this page:  $\Delta E^* = 6.3$

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



TUB-test chart PE89; 16 step hue circle  
 colors and differences,  $\Delta E^*$