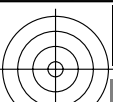


<http://farbe.li.tu-berlin.de/fel3/fel310fa.txt> /.ps; only vector graphic VG; start output  
see separate images of this page: <http://farbe.li.tu-berlin.de/fel3/fel3.htm>

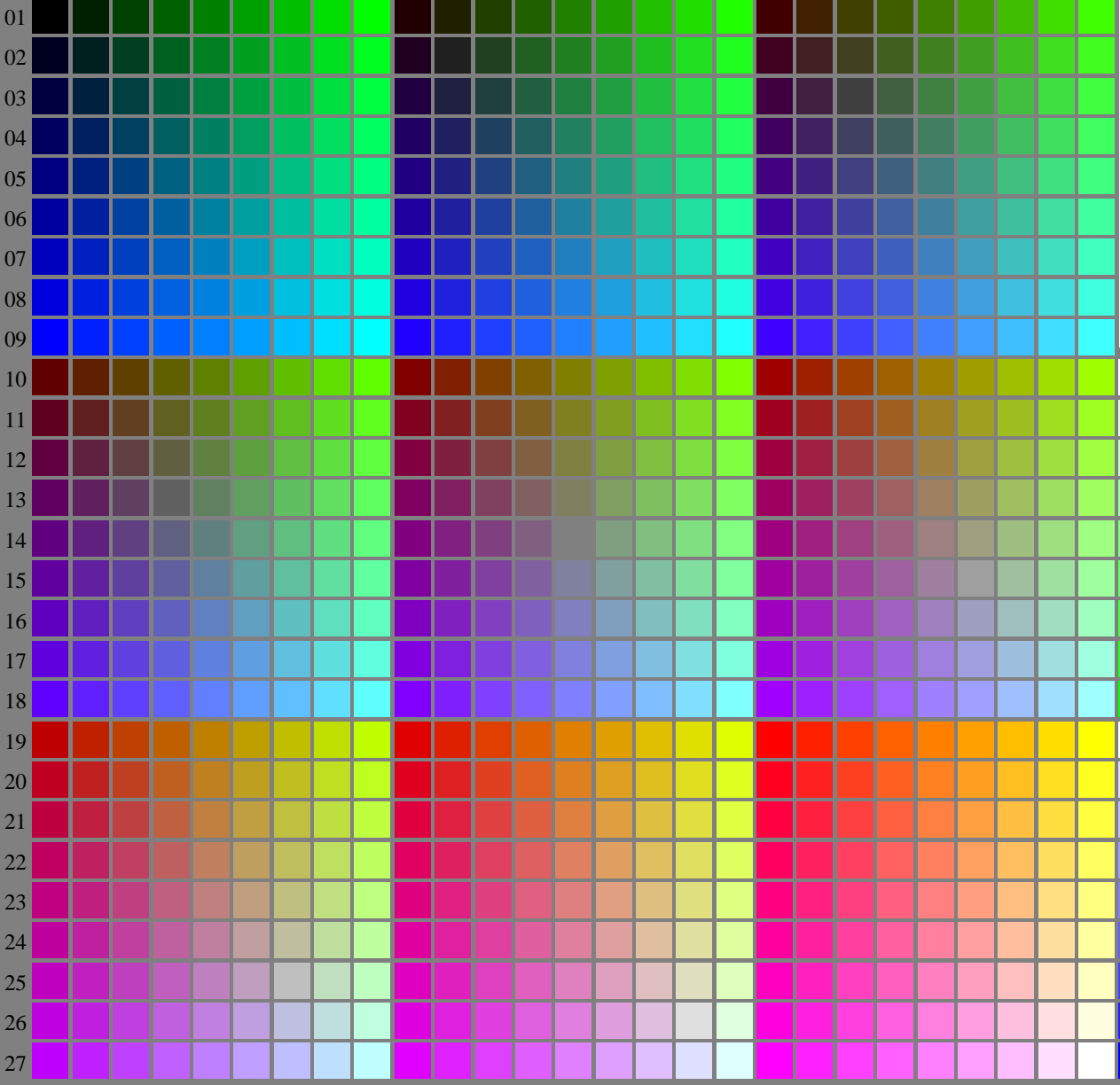


see similar files of the whole serie: <http://farbe.li.tu-berlin.de/fels.htm>  
technical information: <http://farbe.li.tu-berlin.de/A/33872E.html>  
or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

TUB registration: 20240301-fel3/fel310fa.txt /.ps  
application for evaluation and measurement of display or print output

TUB material: code=rh4ta

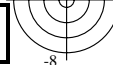
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z a b c d e f g h i j k l m n



fel30-7N, Light HDR Image, Berliner Hochschule fuer Technik, Prof. Suesst; PS operators seltransfer, 3 colorimage

fel30-7N, Page 1/16, Test chart 2G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^*_{d}$  (A\_n), colorm = 1, xchart = 0, pchart = 0

TUB-test chart fel3; fel3: Test chart 2g\_di with 40x27=1080 colours; 1MR, DH 000n/w/cmy0/rgb  
Digital equidistant 9 or 16 step colour scales  $\rightarrow rgb^*_{d}$ , 130-0:





see similar files of the whole serie: <http://farbe.li.tu-berlin.de/fels.htm>  
 technical information: <http://farbe.li.tu-berlin.de/A/33872E.htm>  
 or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

TUB registration: 20240301-fel3/fel310fa.txt /.ps  
 application for evaluation and measurement of display or print output  
 TUB material: code=rh4ta

i	LAB*ref	l*out	LAB*out	LAB*out/c-ref	ΔE*
1	0.0	0.0	0.0	0.0	0.01
2	6.36	0.0	0.07	6.36	0.01
3	12.72	0.0	0.13	12.72	0.01
4	19.08	0.0	0.2	19.08	0.01
5	25.44	0.0	0.27	25.44	0.01
6	31.8	0.0	0.33	31.8	0.01
7	38.16	0.0	0.4	38.16	0.01
8	44.52	0.0	0.47	44.52	0.01
9	50.89	0.0	0.53	50.89	0.01
10	57.25	0.0	0.6	57.25	0.01
11	63.61	0.0	0.67	63.61	0.01
12	69.97	0.0	0.73	69.97	0.01
13	76.33	0.0	0.8	76.33	0.01
14	82.69	0.0	0.87	82.69	0.01
15	89.05	0.0	0.93	89.05	0.01
16	95.41	0.0	1.0	95.41	0.01
17	0.0	0.0	0.0	0.0	0.01
18	23.85	0.0	0.25	23.85	0.01
19	47.71	0.0	0.5	47.71	0.01
20	71.56	0.0	0.75	71.56	0.01
21	95.41	0.0	1.0	95.41	0.01

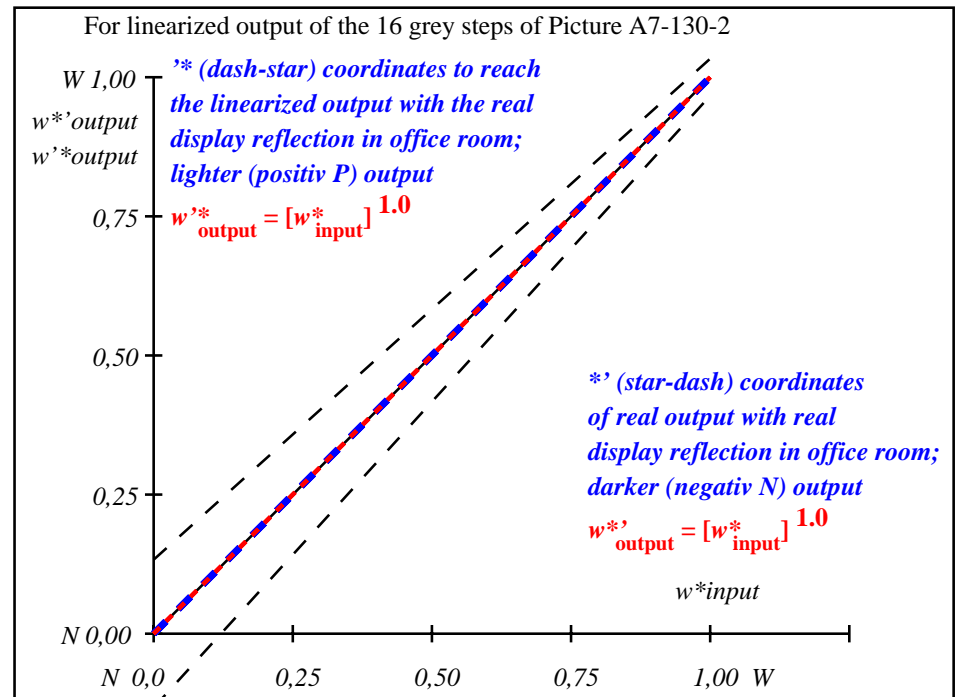
**Start output S1**  
**Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G**

Mean lightness difference (16 steps)  
 $\Delta E^*_{CIELAB} = 0.0$

Mean lightness difference (5 steps)  
 $\Delta L^*_{CIELAB} = 0.0$

Mean colour reproduction index:  $R^*_{ab,m} = 100$

fel30-3A-130-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



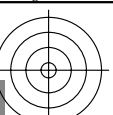
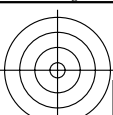
fel31-3N-130-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

$L^*/Y^*_{intended}$ (absolute)	0.0/0.0	6.4/0.7	12.7/1.5	19.1/2.8	25.4/4.6	31.8/7.0	38.2/10.2	44.5/14.2	50.9/19.2	57.2/25.2	63.6/32.3	70.0/40.7	76.3/50.4	82.7/61.6	89.0/74.3	95.4/88.6
$w^* w^* w^*$ setrgb gp=1.0																
No. and Hex code	00;F	01;E	02;D	03;C	04;B	05;A	06;9	07;8	08;7	09;6	10;5	11;4	12;3	13;2	14;1	15;0
$w^* = l^*_{CIELAB, r}$ (relative)																
$w^*_{intended}$	0,000	0,067	0,133	0,200	0,267	0,333	0,400	0,467	0,533	0,600	0,667	0,733	0,800	0,867	0,933	1,000
$w^*_{out}$	0.0	0.067	0.133	0.2	0.267	0.333	0.4	0.467	0.533	0.6	0.667	0.733	0.8	0.867	0.933	1.0

fel30-7N, Picture A7-130-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*$  setrgbcolor

TUB-test chart fel3; fel3: In-output relation according to ISO 9241-306; 1MR, DH 000n/w/cmy0/rgb  
 Viewing Y contrast  $Y_W:Y_N=88,9:0,31$ ;  $Y_N$  range 0,0 to <0,46  
 ->rgb\*d, 130-2:

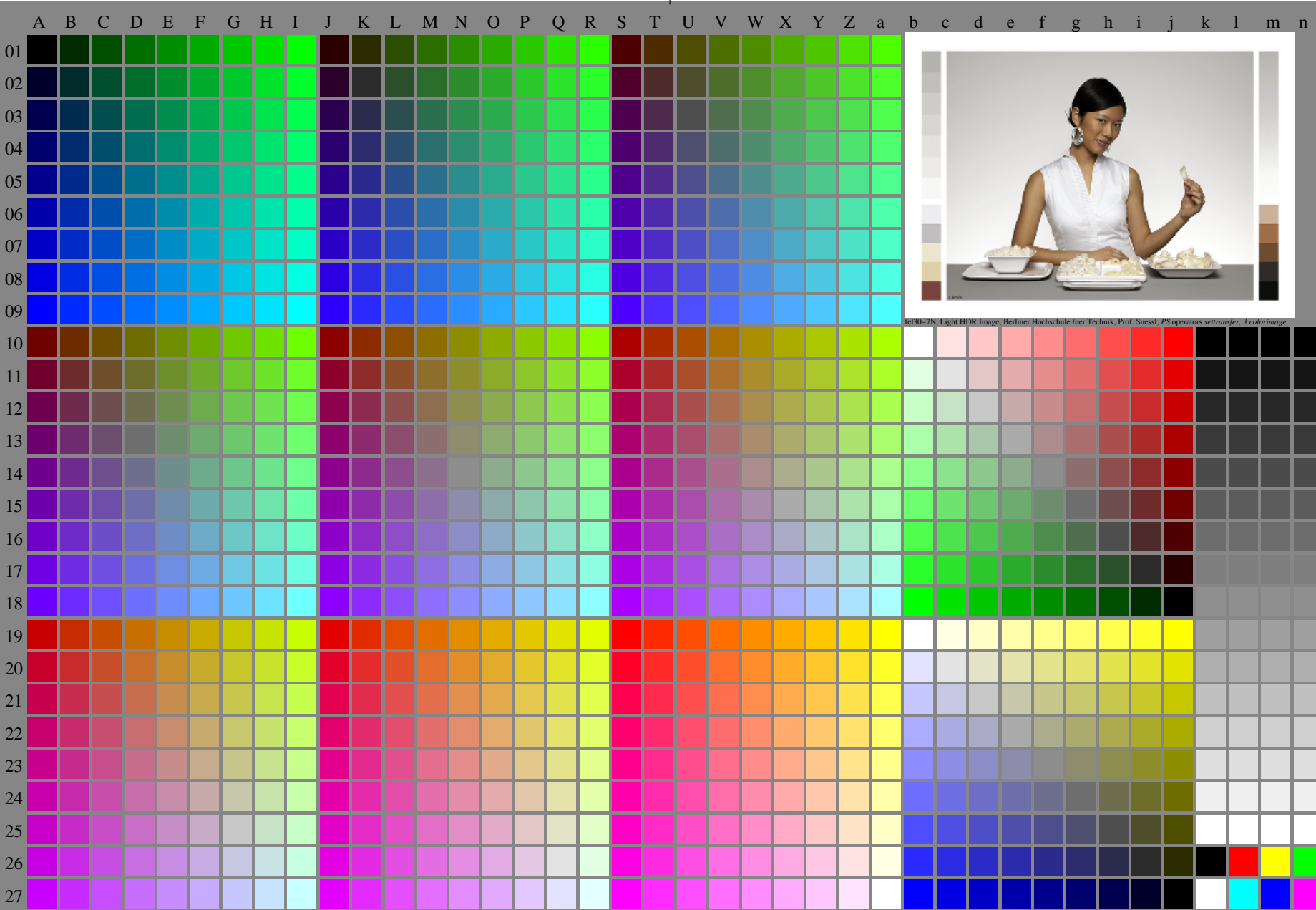
<http://farbe.li.tu-berlin.de/fel3/fel310fa.txt> /.ps; only vector graphic VG;  
see separate images of this page: <http://farbe.li.tu-berlin.de/fel3/fel3.htm>



see similar files of the whole serie: <http://farbe.li.tu-berlin.de/fels.htm>  
technical information: <http://farbe.li.tu-berlin.de/A/33872E.html>  
or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

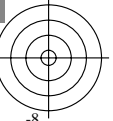
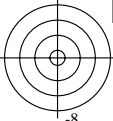
TUB registration: 20240301-fel3/fel310fa.txt /.ps  
application for evaluation and measurement of display or print output

TUB material: code=rh4ta



fel30-7N, Page 1/16, Test chart 2G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^*_{d}$  (A\_n), colorm = 1, xchart = 1, pchart = 0

TUB-test chart fel3; fel3: Test chart 2g\_di with 40x27=1080 colours; 1MR, DH 000n/w/cmy0/rgb  
Digital equidistant 9 or 16 step colour scales  $\rightarrow rgb^*_{d}$ , 131-0:







see similar files of the whole serie: <http://farbe.li.tu-berlin.de/fels.htm>  
technical information: <http://farbe.li.tu-berlin.de/A/33872E.html>  
or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

TUB registration: 20240301-fel3/fel310fa.txt /.ps  
application for evaluation and measurement of display or print output  
TUB material: code=rh4ta

i	LAB*ref	l*out	LAB*out	LAB*out/c-ref	$\Delta E^*$
1	5.69	0.0	0.0	5.69	0.0
2	11.67	0.0	0.1	14.73	0.0
3	17.65	0.0	0.18	21.96	0.0
4	23.63	0.0	0.26	28.63	0.0
5	29.62	0.0	0.33	34.96	0.0
6	35.6	0.0	0.39	41.05	0.0
7	41.58	0.0	0.46	46.96	0.0
8	47.56	0.0	0.52	52.72	0.0
9	53.54	0.0	0.59	58.36	0.0
10	59.52	0.0	0.65	63.88	0.0
11	65.5	0.0	0.71	69.32	0.0
12	71.48	0.0	0.77	74.67	0.0
13	77.47	0.0	0.83	79.95	0.0
14	83.45	0.0	0.89	85.16	0.0
15	89.43	0.0	0.94	90.31	0.0
16	95.41	0.0	1.0	95.41	0.0
17	5.69	0.0	0.0	5.69	0.0
18	28.12	0.0	0.31	33.4	0.0
19	50.55	0.0	0.56	55.55	0.0
20	72.98	0.0	0.78	76.0	0.0
21	95.41	0.0	1.0	95.41	0.0

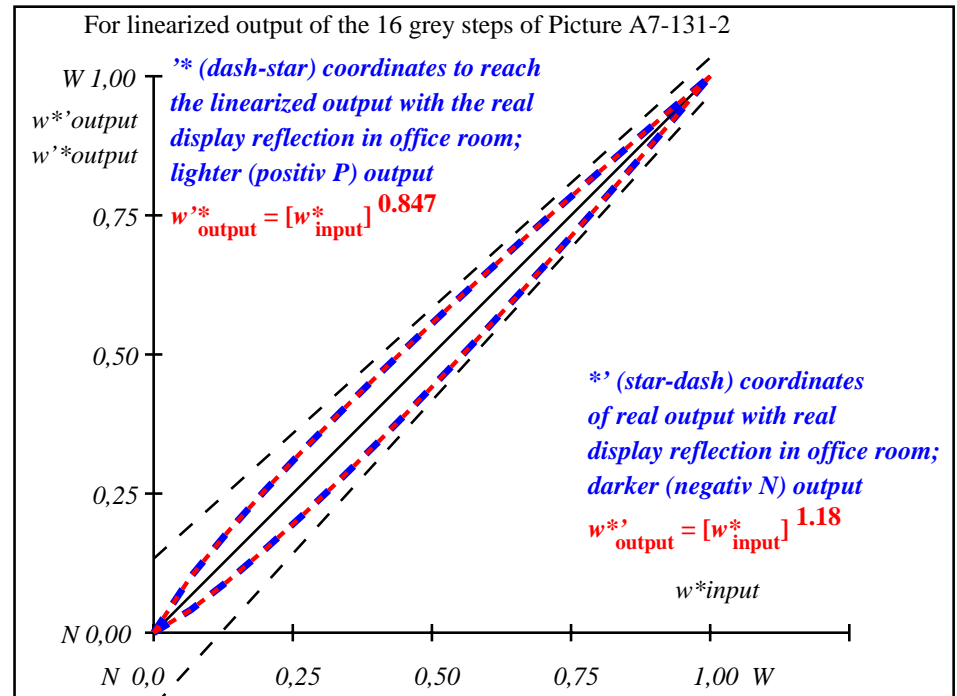
**Start output S1**  
**Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G**

Mean lightness difference (16 steps)  
 $\Delta E^*_{CIELAB} = 3.4$

Mean lightness difference (5 steps)  
 $\Delta L^*_{CIELAB} = 2.7$

Mean colour reproduction index:  $R^*_{ab,m} = 85$

fel30-3A-131-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



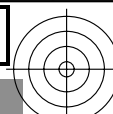
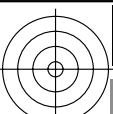
fel31-3N-131-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

$L^*/Y^*_{intended}$ (absolute)	5.7/0.6	11.7/1.4	17.7/2.4	23.6/4.0	29.6/6.1	35.6/8.8	41.6/12.2	47.6/16.5	53.5/21.5	59.5/27.6	65.5/34.7	71.5/42.9	77.5/52.3	83.4/63.0	89.4/75.1	95.4/88.6
$w^*_{setrgb}$	00;F	01;E	02;D	03;C	04;B	05;A	06;9	07;8	08;7	09;6	10;5	11;4	12;3	13;2	14;1	15;0
$w^*_{relative}$	0,000	0,067	0,133	0,200	0,267	0,333	0,400	0,467	0,533	0,600	0,667	0,733	0,800	0,867	0,933	1,000

fel30-7N, Picture A7-131-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*_{setrgbcolor}$

TUB-test chart fel3; fel3: In-output relation according to ISO 9241-306; 1MR, DH 000n/w/cmy0/rgb  
Viewing Y contrast  $Y_W:Y_N=88,9:0,62$ ;  $Y_N$  range 0,46 to <0,93  
->rgb\*\_d, 131-2:

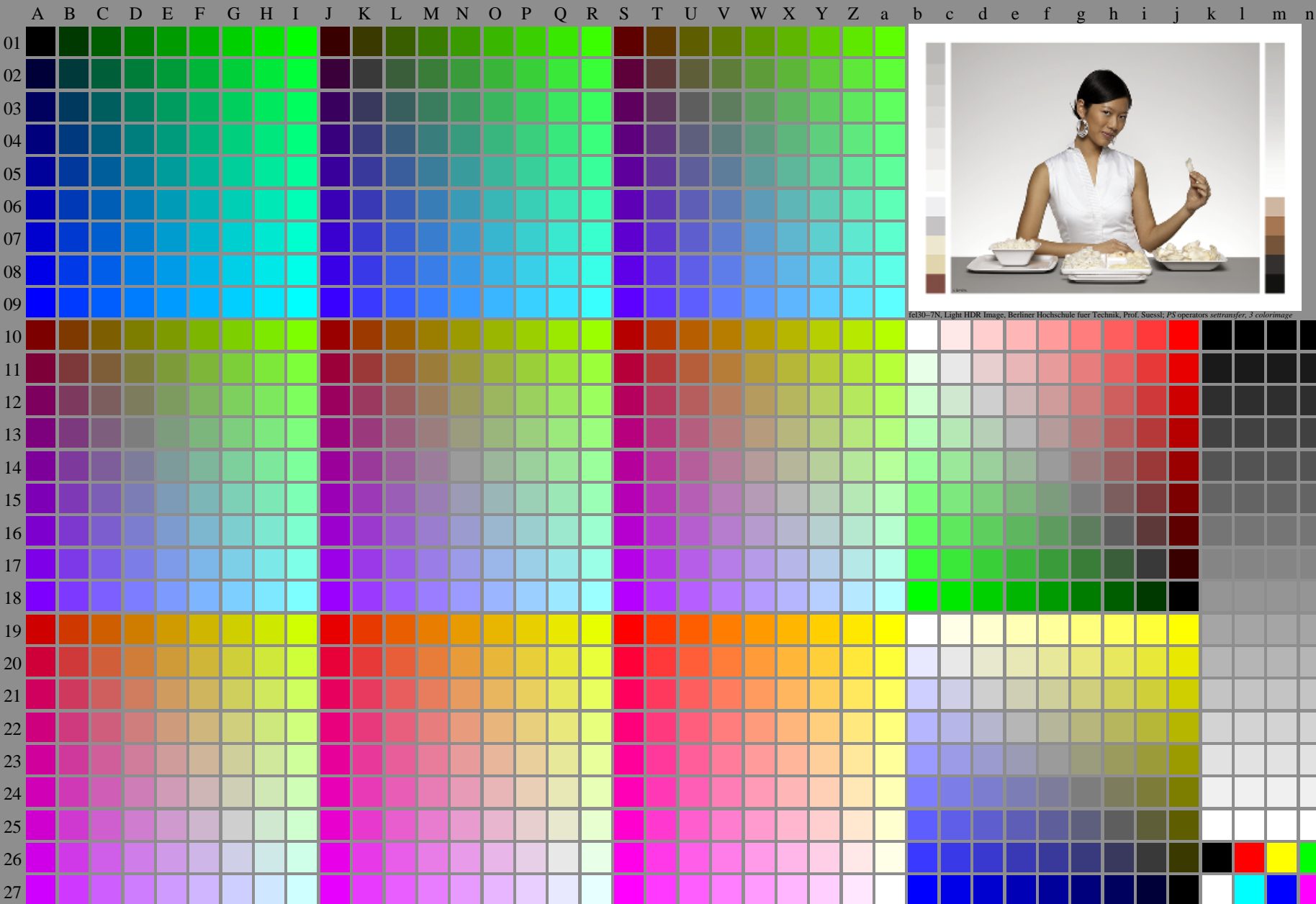
<http://farbe.li.tu-berlin.de/fel3/fel310fa.txt> /.ps; only vector graphic VG;  
see separate images of this page: <http://farbe.li.tu-berlin.de/fel3/fel3.htm>



see similar files of the whole series: <http://farbe.li.tu-berlin.de/fels.htm>  
technical information: <http://farbe.li.tu-berlin.de/A/33872E.html>  
or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

TUB registration: 20240301-fel3/fel310fa.txt /.ps  
application for evaluation and measurement of display or print output

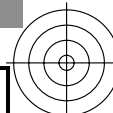
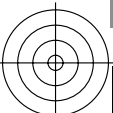
TUB material: code=rh4ta



fel30-7N, Light HDR Image, Berliner Hochschule fuer Technik, Prof. Suesst; PS operators settransfer, 3 colorimage

fel30-7N, Page 1/16, Test chart 2G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^*_{(A_n)}$ , colorm = 1, xchart = 2, pchart = 0

TUB-test chart fel3; fel3: Test chart 2g\_di with 40x27=1080 colours; 1MR, DH 000n/w/cmy0/rgb  
Digital equidistant 9 or 16 step colour scales  $\rightarrow rgb^*_d, 132-0:$



http://farbe.li.tu-berlin.de/fel3/fel310fa.txt /ps; only vector graphic VG;  
see separate images of this page: http://farbe.li.tu-berlin.de/fel3/fel3.htm

TUB registration: 20240301-fel3/fel310fa.txt /ps  
application for evaluation and measurement of display or print output  
TUB material: code=rh4ta

see similar files of the whole serie: http://farbe.li.tu-berlin.de/fels.htm  
technical information: http://farbe.li.tu-berlin.de/A/33872E.htm  
or http://standards.iso.org/iso/9241/306/ed-2/index.html

Table with 28 columns (A-TUB) and 28 rows (1-27). Each cell contains a numerical value representing a colorimetric measurement. The table is a grid of 772 data points (28x28).

fel30-70, Page 2/16, Test chart G with 40x27=1080 colours; digital equivalent 9 or 16 step colour scales; Colour data in column (A-n): rrgb\*(A\_j + k26\_n27), 000n\*(k), w\*(l), nnn0\*(m), www\*(n), color=1, xchart=1

TUB-test chart fel3; fel3: Test chart 2g di with 40x27=1080 colours; 1MR, DH 000n/w/cmy0/rgb  
Digital equivalent 9 or 16 step colour scales  
>rgb\*\_d, 131-:

l=1321

C M Y

C M Y



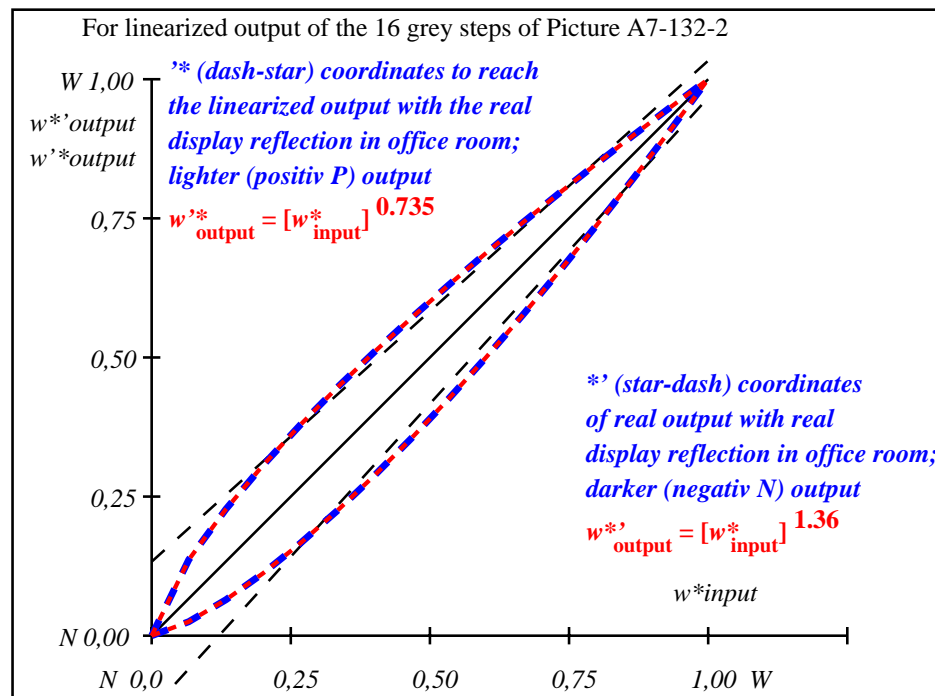
see similar files of the whole serie: <http://farbe.li.tu-berlin.de/fels.htm>  
technical information: <http://farbe.li.tu-berlin.de/A/33872E.html>  
or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

TUB registration: 20240301-fel3/fel310fa.txt /.ps  
application for evaluation and measurement of display or print output  
TUB material: code=rh4ta

i	LAB*ref	l*out	LAB*out	LAB*out/c-ref	ΔE*	Start output S1
1	10.99	0.0	0.0	10.99	0.0	Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G
2	16.62	0.0	0.14	22.52	0.0	
3	22.25	0.0	0.23	30.18	0.0	
4	27.88	0.0	0.31	36.84	0.0	
5	33.5	0.0	0.38	42.93	0.0	
6	39.13	0.0	0.45	48.63	0.0	
7	44.76	0.0	0.51	54.03	0.0	
8	50.39	0.0	0.57	59.19	0.0	
9	56.02	0.0	0.63	64.17	0.0	
10	61.64	0.0	0.69	68.98	0.0	
11	67.27	0.0	0.74	73.65	0.0	
12	72.9	0.0	0.8	78.2	0.0	
13	78.53	0.0	0.85	82.64	0.0	
14	84.15	0.0	0.9	86.98	0.0	
15	89.78	0.0	0.95	91.23	0.0	
16	95.41	0.0	1.0	95.41	0.0	
17	10.99	0.0	0.0	10.99	0.0	Mean lightness difference (16 steps)
18	32.1	0.0	0.36	41.45	0.0	$\Delta E^*_{CIELAB} = 6.0$
19	53.2	0.0	0.6	61.7	0.0	
20	74.31	0.0	0.81	79.32	0.0	Mean lightness difference (5 steps)
21	95.41	0.0	1.0	95.41	0.0	$\Delta L^*_{CIELAB} = 4.6$

Mean colour reproduction index:  $R^*_{ab,m} = 74$

fel30-3A-132-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



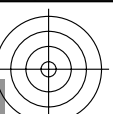
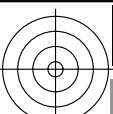
fel31-3N-132-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

$L^*/Y^*_{intended}$ (absolute)	11.0/1.3	16.6/2.2	22.2/3.6	27.9/5.4	33.5/7.8	39.1/10.7	44.8/14.4	50.4/18.7	56.0/23.9	61.6/30.0	67.3/37.0	72.9/45.0	78.5/54.1	84.2/64.4	89.8/75.8	95.4/88.6
$w^*_{setrgb}$	00;F	01;E	02;D	03;C	04;B	05;A	06;9	07;8	08;7	09;6	10;5	11;4	12;3	13;2	14;1	15;0
$w^*_{CIELAB, r}$ (relative)	0,000	0,067	0,133	0,200	0,267	0,333	0,400	0,467	0,533	0,600	0,667	0,733	0,800	0,867	0,933	1,000
$w^*_{intended}$	0,000	0,067	0,133	0,200	0,267	0,333	0,400	0,467	0,533	0,600	0,667	0,733	0,800	0,867	0,933	1,000
$w^*_{out}$	0,0	0,1	0,18	0,255	0,325	0,393	0,459	0,524	0,586	0,648	0,709	0,768	0,827	0,886	0,943	1,0

fel30-7N, Picture A7-132-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*_{setrgbcolor}$

TUB-test chart fel3; fel3: In-output relation according to ISO 9241-306; 1MR, DH 000n/w/cmy0/rgb  
Viewing Y contrast  $Y_W:Y_N=88,9:1,25$ ;  $Y_N$  range 0,93 to <1,87  
->rgb\*\_d, 132-2:

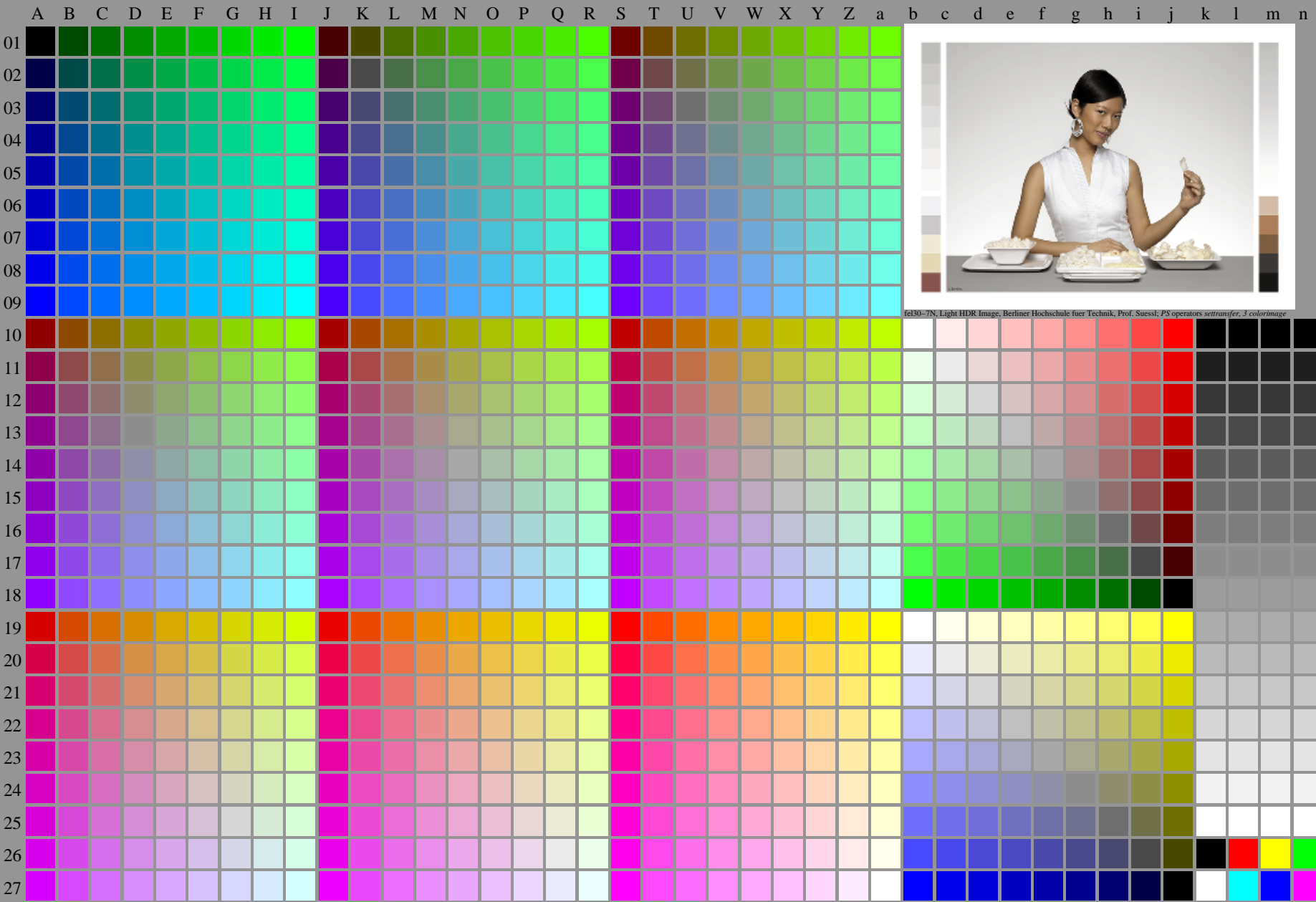
<http://farbe.li.tu-berlin.de/fel3/fel310fa.txt> /.ps; only vector graphic VG;  
see separate images of this page: <http://farbe.li.tu-berlin.de/fel3/fel3.htm>



see similar files of the whole serie: <http://farbe.li.tu-berlin.de/fels.htm>  
technical information: <http://farbe.li.tu-berlin.de/A/33872E.html>  
or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

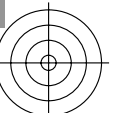
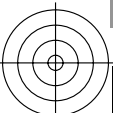
TUB registration: 20240301-fel3/fel310fa.txt /.ps  
application for evaluation and measurement of display or print output

TUB material: code=rh4ta



fel30-7N, Page 1/16, Test chart 2G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^*_{d, 133-0}$ , colorm = 1, xchart = 3, pchart = 0

TUB-test chart fel3; fel3: Test chart 2g\_di with 40x27=1080 colours; 1MR, DH 000n/w/cmy0/rgb  
Digital equidistant 9 or 16 step colour scales  $\rightarrow rgb^*_{d, 133-0}$



http://farbe.li.tu-berlin.de/fel3/fel310fa.txt / .ps; only vector graphic VG;  
see separate images of this page: http://farbe.li.tu-berlin.de/fel3/fel3.htm

see similar files of the whole serie: <http://farbe.li.tu-berlin.de/fels.htm>  
technical information: <http://farbe.li.tu-berlin.de/A/33872E.html>  
or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

TUB registration: 20240301-fel3/fel310fa.txt / .ps  
application for evaluation and measurement of display or print output  
TUB material: code rh4ta

Table with 27 rows (01-27) and 100 columns (A-Z, a-z). Each cell contains a 5-digit color code (e.g., 0000 A01, 0009 B01, 0018 C01, etc.).

fel30-70, Page 2/16, Test chart G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^*(A_j + k26, 000n^*(k), w^*(l), nnn0^*(m), www^*(n), color = 1, xchart = 3, pchart = 1$

TUB-test chart g; fel3: Test chart 2g di with 40x27=1080 colours; 1MR, DH 000n/w/cmy0/rgb  
Digital equidistant 9 or 16 step colour scales  
->rgb\*d, 133-1:

l=1331

see similar files of the whole serie: <http://farbe.li.tu-berlin.de/fels.htm>  
 technical information: <http://farbe.li.tu-berlin.de/A/33872E.html>  
 or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

TUB registration: 20240301-fel3/fel310fa.txt /.ps  
 application for evaluation and measurement of display or print output  
 TUB material: code=rh4ta

i	LAB*ref	l*out	LAB*out	LAB*out/c-ref	$\Delta E^*$
1	18.01	0.0	0.0	18.01	0.0
2	23.17	0.0	0.17	31.35	0.0
3	28.33	0.0	0.27	38.93	0.0
4	33.49	0.0	0.35	45.23	0.0
5	38.65	0.0	0.42	50.82	0.0
6	43.81	0.0	0.49	55.93	0.0
7	48.97	0.0	0.55	60.7	0.0
8	54.13	0.0	0.61	65.2	0.0
9	59.29	0.0	0.66	69.47	0.0
10	64.45	0.0	0.72	73.56	0.0
11	69.61	0.0	0.77	77.49	0.0
12	74.77	0.0	0.82	81.29	0.0
13	79.93	0.0	0.87	84.97	0.0
14	85.09	0.0	0.91	88.54	0.0
15	90.25	0.0	0.96	92.02	0.0
16	95.41	0.0	1.0	95.41	0.0
17	18.01	0.0	0.0	18.01	0.0
18	37.36	0.0	0.41	49.47	0.0
19	56.71	0.0	0.64	67.36	0.0
20	76.06	0.0	0.83	82.22	0.0
21	95.41	0.0	1.0	95.41	0.0

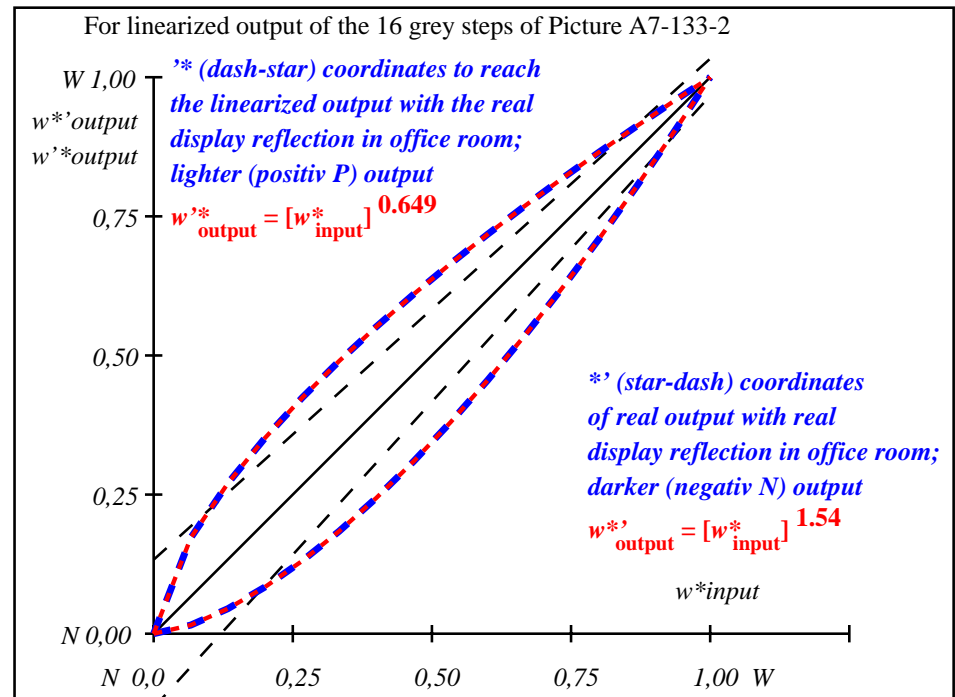
**Start output S1**  
**Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G**

Mean lightness difference (16 steps)  
 $\Delta E^*_{CIELAB} = 7.6$

Mean lightness difference (5 steps)  
 $\Delta L^*_{CIELAB} = 5.8$

Mean colour reproduction index:  $R^*_{ab,m} = 67$

fel30-3A-133-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



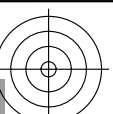
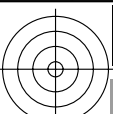
fel31-3N-133-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

$L^*/Y^*_{intended}$ (absolute)	18.0/2.5	23.2/3.8	28.3/5.6	33.5/7.8	38.6/10.5	43.8/13.7	49.0/17.6	54.1/22.1	59.3/27.3	64.4/33.4	69.6/40.2	74.8/47.9	79.9/56.6	85.1/66.2	90.2/76.8	95.4/88.6
$w^* w^* w^*$ setrgb																
$g_p=0.78$																
No. and Hex code	00;F	01;E	02;D	03;C	04;B	05;A	06;9	07;8	08;7	09;6	10;5	11;4	12;3	13;2	14;1	15;0
$w^*=l^*_{CIELAB, r}$ (relative)																
$w^*_{intended}$	0,000	0,067	0,133	0,200	0,267	0,333	0,400	0,467	0,533	0,600	0,667	0,733	0,800	0,867	0,933	1,000
$w^*_{out}$	0,0	0,123	0,209	0,287	0,359	0,426	0,492	0,554	0,614	0,673	0,731	0,786	0,841	0,895	0,948	1,0

fel30-7N, Picture A7-133-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*$  setrgbcolor

TUB-test chart fel3; fel3: In-output relation according to ISO 9241-306; 1MR, DH 000n/w/cmy0/rgb  
 Viewing Y contrast  $Y_W:Y_N=88,9:2,5$ ;  $Y_N$  range 1,87 to <3,75  
 ->rgb\*\_d, 133-2:

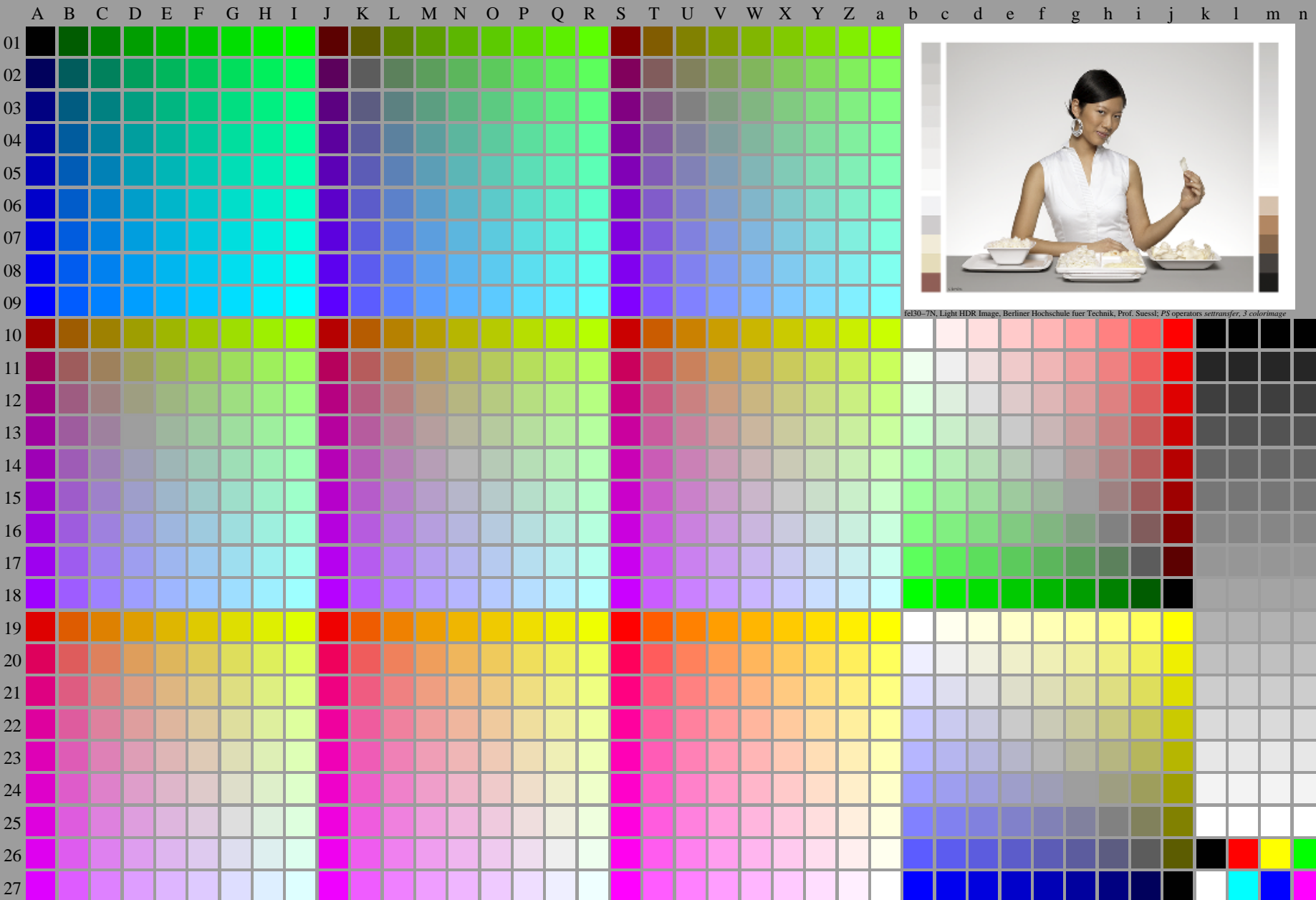
<http://farbe.li.tu-berlin.de/fel3/fel310fa.txt> /.ps; only vector graphic VG;  
see separate images of this page: <http://farbe.li.tu-berlin.de/fel3/fel3.htm>



see similar files of the whole serie: <http://farbe.li.tu-berlin.de/fels.htm>  
technical information: <http://farbe.li.tu-berlin.de/A/33872E.html>  
or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

TUB registration: 20240301-fel3/fel310fa.txt /.ps  
application for evaluation and measurement of display or print output

TUB material: code=rh4ta



fel30-7N, Page 1/16, Test chart 2G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^*_{(A_n)}$ , colorm = 1, xchart = 4, pchart = 0

TUB-test chart fel3; fel3: Test chart 2g\_di with 40x27=1080 colours; 1MR, DH 000n/w/cmy0/rgb  
Digital equidistant 9 or 16 step colour scales  $\rightarrow rgb^*_d, 134-0:$

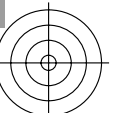
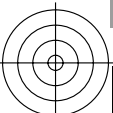




Table with 27 rows (01-27) and 100 columns (A-Z, a-z). Each cell contains a numerical value representing color data for a specific row and column.

fel30-70, Page 2/16, Test chart G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n): rgb\*(A\_j + k26\_n27), 000n\*(k), w\*(l), nnn0\*(m), www\*(n), colormap = 1, xchart = 4, pchart = 1

TUB-test chart fel3; fel3: Test chart 2g di with 40x27=1080 colours; 1MR, DH 000n/w/cmy0/rgb >rgb\*d, 134-1:

see similar files of the whole serie: http://farbe.li.tu-berlin.de/fels.htm  
technical information: http://farbe.li.tu-berlin.de/A/3872E.html  
or http://standards.iso.org/iso/9241/306/ed-2/index.html

TUB registration: 20240301-fel3/fel310fa.txt /ps  
application for evaluation and measurement of display or print output  
TUB material: code=rahta

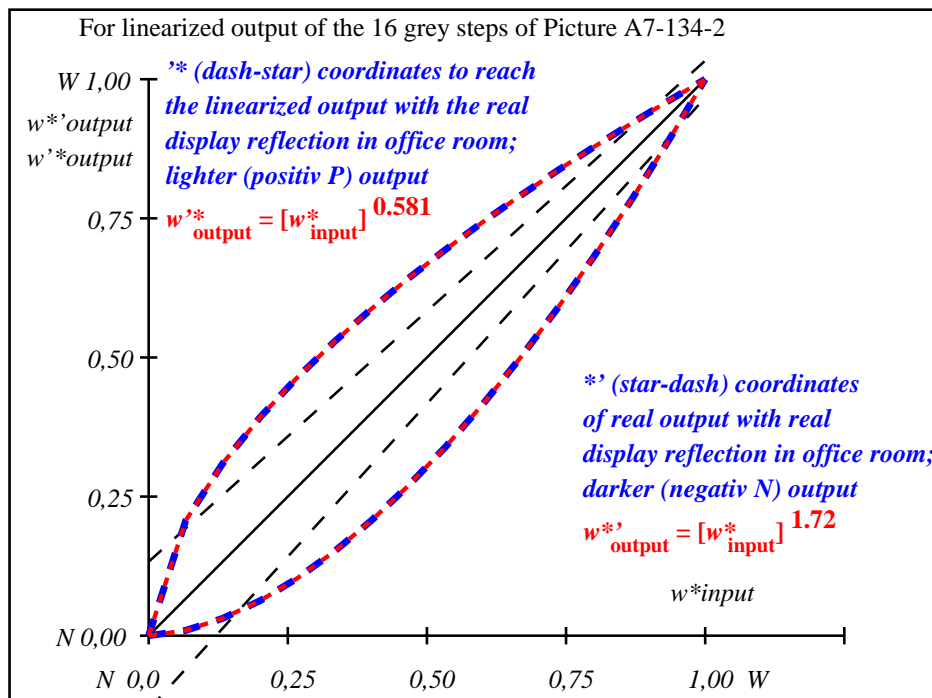
see similar files of the whole serie: <http://farbe.li.tu-berlin.de/fels.htm>  
technical information: <http://farbe.li.tu-berlin.de/A/33872E.html>  
or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

TUB registration: 20240301-fel3/fel310fa.txt /.ps  
application for evaluation and measurement of display or print output  
TUB material: code=rh4ta

i	LAB*ref	l*out	LAB*out	LAB*out/c-ref	$\Delta E^*$	Start output S1
1	26.85 0.0 0.0	0.0 0.0	26.85 0.0 0.0	0.0 0.0 0.0	0.01	Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G
2	31.42 0.0 0.0	0.21 41.05 0.0 0.0	9.63 0.0 0.0	9.63		
3	35.99 0.0 0.0	0.31 48.1 0.0 0.0	12.11 0.0 0.0	12.11		
4	40.56 0.0 0.0	0.39 53.75 0.0 0.0	13.18 0.0 0.0	13.18		
5	45.13 0.0 0.0	0.46 58.64 0.0 0.0	13.51 0.0 0.0	13.51		
6	49.7 0.0 0.0	0.53 63.05 0.0 0.0	13.34 0.0 0.0	13.34		
7	54.27 0.0 0.0	0.59 67.09 0.0 0.0	12.82 0.0 0.0	12.82		
8	58.84 0.0 0.0	0.64 70.87 0.0 0.0	12.02 0.0 0.0	12.02		
9	63.41 0.0 0.0	0.69 74.42 0.0 0.0	11.01 0.0 0.0	11.01		
10	67.99 0.0 0.0	0.74 77.79 0.0 0.0	9.81 0.0 0.0	9.81		
11	72.56 0.0 0.0	0.79 81.01 0.0 0.0	8.46 0.0 0.0	8.46		
12	77.13 0.0 0.0	0.84 84.1 0.0 0.0	6.97 0.0 0.0	6.97		
13	81.7 0.0 0.0	0.88 87.07 0.0 0.0	5.37 0.0 0.0	5.37		
14	86.27 0.0 0.0	0.92 89.94 0.0 0.0	3.67 0.0 0.0	3.67		
15	90.84 0.0 0.0	0.96 92.71 0.0 0.0	1.88 0.0 0.0	1.88	Mean lightness difference (16 steps)	
16	95.41 0.0 0.0	1.0 95.41 0.0 0.0	0.0 0.0 0.0	0.01	$\Delta E^*_{CIELAB} = 8.4$	
17	26.85 0.0 0.0	0.0 26.85 0.0 0.0	0.0 0.0 0.0	0.01		
18	43.99 0.0 0.0	0.45 57.47 0.0 0.0	13.48 0.0 0.0	13.48		
19	61.13 0.0 0.0	0.67 72.67 0.0 0.0	11.54 0.0 0.0	11.54		
20	78.27 0.0 0.0	0.85 84.85 0.0 0.0	6.58 0.0 0.0	6.58	Mean lightness difference (5 steps)	
21	95.41 0.0 0.0	1.0 95.41 0.0 0.0	0.0 0.0 0.0	0.01	$\Delta L^*_{CIELAB} = 6.3$	

Mean colour reproduction index:  $R^*_{ab,m} = 64$

fel30-3A-134-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



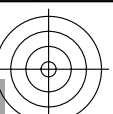
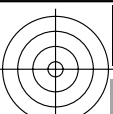
fel31-3N-134-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

$L^*/Y^*_{intended}$ (absolute)	26.8/5.0	31.4/6.8	36.0/9.0	40.6/11.6	45.1/14.6	49.7/18.2	54.3/22.2	58.8/26.9	63.4/32.1	68.0/38.0	72.6/44.5	77.1/51.7	81.7/59.7	86.3/68.5	90.8/78.1	95.4/88.6
$w^* w^* w^*$ setrgb																
gp=0.7																
No. and Hex code	00;F	01;E	02;D	03;C	04;B	05;A	06;9	07;8	08;7	09;6	10;5	11;4	12;3	13;2	14;1	15;0
$w^* = l^*_{CIELAB, r}$ (relative)																
$w^*_{intended}$	0,000	0,067	0,133	0,200	0,267	0,333	0,400	0,467	0,533	0,600	0,667	0,733	0,800	0,867	0,933	1,000
$w^*_{out}$	0.0	0.151	0.244	0.324	0.397	0.463	0.527	0.587	0.644	0.699	0.753	0.805	0.855	0.905	0.953	1.0

fel30-7N, Picture A7-134-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*$  setrgbcolor

TUB-test chart fel3; fel3: In-output relation according to ISO 9241-306; 1MR, DH 000n/w/cmy0/rgb  
Viewing Y contrast  $Y_W:Y_N=88,9:5$ ;  $Y_N$  range 3,75 to <7,5  
->rgb\*\_d, 134-2:

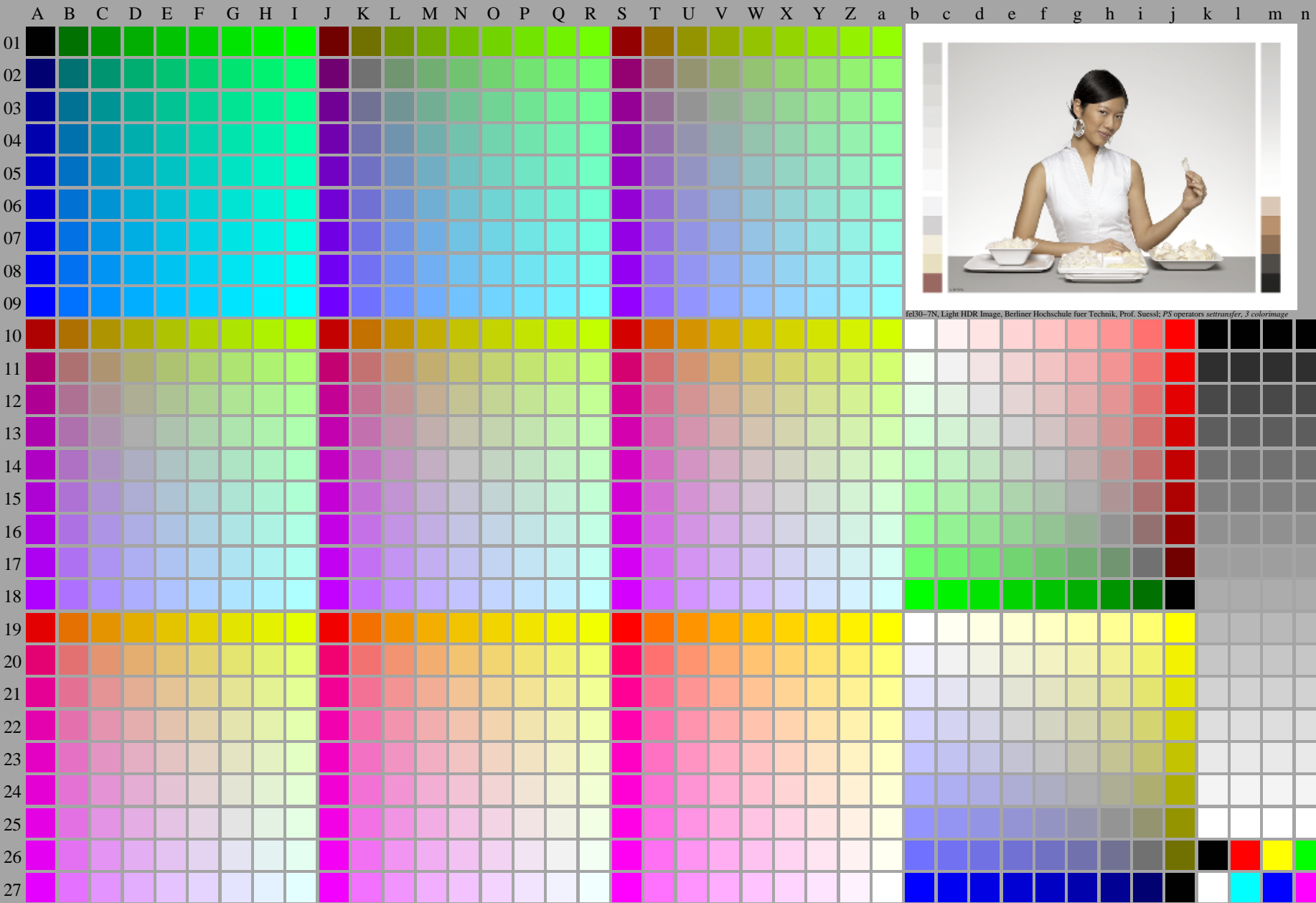
<http://farbe.li.tu-berlin.de/fel3/fel310fa.txt> /.ps; only vector graphic VG;  
see separate images of this page: <http://farbe.li.tu-berlin.de/fel3/fel3.htm>



see similar files of the whole series: <http://farbe.li.tu-berlin.de/fels.htm>  
technical information: <http://farbe.li.tu-berlin.de/A/33872E.html>  
or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

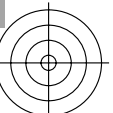
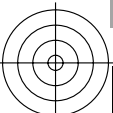
TUB registration: 20240301-fel3/fel310fa.txt /.ps  
application for evaluation and measurement of display or print output

TUB material: code=rh4ta

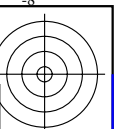


fel30-7N, Page 1/16, Test chart 2G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^* (A_n)$ ,  $colorm = 1$ ,  $xchart = 5$ ,  $pchart = 0$

TUB-test chart fel3; fel3: Test chart 2g\_di with 40x27=1080 colours; 1MR, DH 000n/w/cmy0/rgb  
Digital equidistant 9 or 16 step colour scales  $\rightarrow rgb^*_d, 135-0$



http://farbe.li.tu-berlin.de/fel3/fel310a.txt /ps; only vector graphic VG;  
see separate images of this page: http://farbe.li.tu-berlin.de/fel3/fel310a.htm



TUB registration: 20240301-fel3/fel310a.txt /ps  
application for evaluation and measurement of display or print output

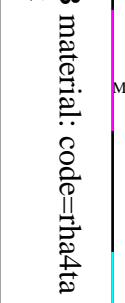
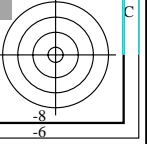
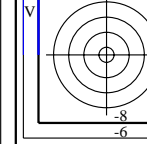


Table with 28 rows (01-27) and 100 columns (A-Z, a-z). Each cell contains a numerical value representing color data for a specific row and column combination.

fel30-70, Page 2/16, Test chart G with 40x27=1080 colours; digital equivalent 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^*(A_j + k26\_n27), 000n^*(k), w^*(l), nnn^*(m), www^*(n), color = 1, xchart = 5, pchart = 1$

TUB-test chart fel3; fel3: Test chart 2g di with 40x27=1080 colours; 1MR, DH 000n/w/cmy0/rgb  
Digital equivalent 9 or 16 step colour scales >rgb\*d, 135-1:

see similar files of the whole serie: http://farbe.li.tu-berlin.de/fels.htm  
technical information: http://farbe.li.tu-berlin.de/A/33872E.html  
or http://standards.iso.org/iso/9241/306/ed-2/index.html



see similar files of the whole serie: <http://farbe.li.tu-berlin.de/fels.htm>  
technical information: <http://farbe.li.tu-berlin.de/A/33872E.html>  
or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

TUB registration: 20240301-fel3/fel310fa.txt /.ps  
application for evaluation and measurement of display or print output  
TUB material: code=rh4ta

i	LAB*ref	l*out	LAB*out	LAB*out/c-ref	$\Delta E^*$
1	37.99	0.0	0.0	37.99 0.0 0.0	0.01
2	41.81	0.0	0.24	51.79 0.0 0.0	9.98
3	45.64	0.0	0.35	57.87 0.0 0.0	12.23
4	49.47	0.0	0.43	62.6 0.0 0.0	13.13
5	53.3	0.0	0.5	66.63 0.0 0.0	13.33
6	57.13	0.0	0.56	70.19 0.0 0.0	13.07
7	60.96	0.0	0.62	73.44 0.0 0.0	12.48
8	64.78	0.0	0.67	76.44 0.0 0.0	11.65
9	68.61	0.0	0.72	79.23 0.0 0.0	10.62
10	72.44	0.0	0.76	81.87 0.0 0.0	9.43
11	76.27	0.0	0.81	84.37 0.0 0.0	8.11
12	80.1	0.0	0.85	86.76 0.0 0.0	6.66
13	83.93	0.0	0.89	89.05 0.0 0.0	5.12
14	87.75	0.0	0.93	91.24 0.0 0.0	3.49
15	91.58	0.0	0.96	93.36 0.0 0.0	1.78
16	95.41	0.0	1.0	95.41 0.0 0.0	0.01
17	37.99	0.0	0.0	37.99 0.0 0.0	0.01
18	52.34	0.0	0.48	65.67 0.0 0.0	13.33
19	66.7	0.0	0.69	77.86 0.0 0.0	11.16
20	81.05	0.0	0.86	87.34 0.0 0.0	6.29
21	95.41	0.0	1.0	95.41 0.0 0.0	0.01

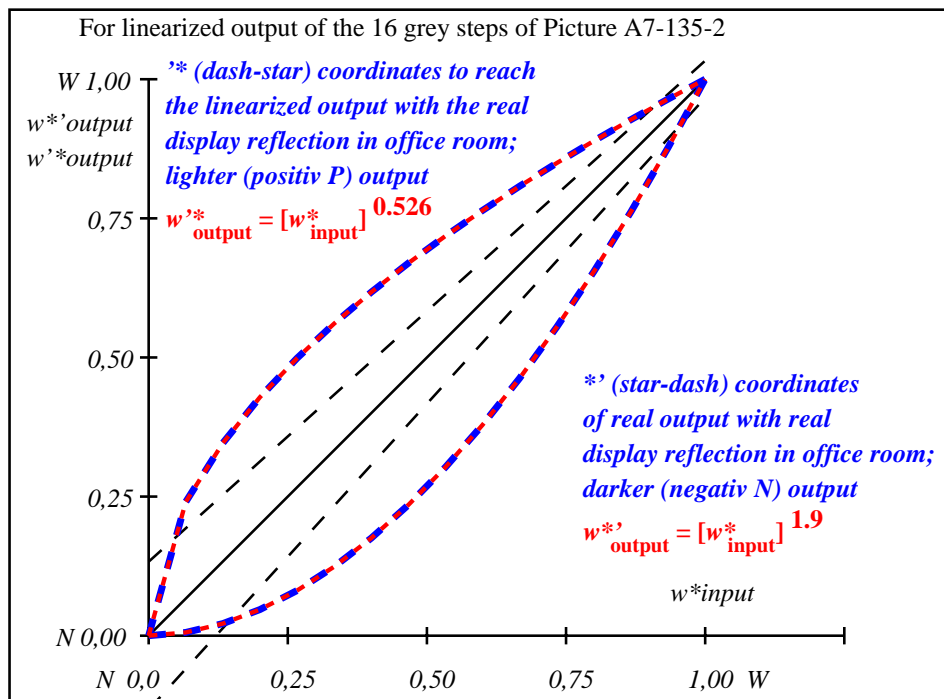
**Start output S1**  
**Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G**

Mean lightness difference (16 steps)  
 $\Delta E^*_{CIELAB} = 8.2$

Mean lightness difference (5 steps)  
 $\Delta L^*_{CIELAB} = 6.2$

Mean colour reproduction index:  $R^*_{ab,m} = 65$

fel30-3A-135-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



fel31-3N-135-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

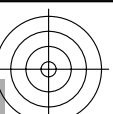
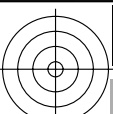
$L^*/Y^*_{intended}$ (absolute)	38.0/10.1	41.8/12.4	45.6/15.0	49.5/18.0	53.3/21.3	57.1/25.1	61.0/29.2	64.8/33.8	68.6/38.8	72.4/44.3	76.3/50.3	80.1/56.9	83.9/63.9	87.8/71.6	91.6/79.8	95.4/88.6
$w^*_{setrgb}$	00;F	01;E	02;D	03;C	04;B	05;A	06;9	07;8	08;7	09;6	10;5	11;4	12;3	13;2	14;1	15;0
$w^*_{CIELAB, r}$ (relative)	0,000	0,067	0,133	0,200	0,267	0,333	0,400	0,467	0,533	0,600	0,667	0,733	0,800	0,867	0,933	1,000
$w^*_{intended}$	0,000	0,067	0,133	0,200	0,267	0,333	0,400	0,467	0,533	0,600	0,667	0,733	0,800	0,867	0,933	1,000
$w^*_{out}$	0,0	0,185	0,283	0,366	0,438	0,503	0,564	0,621	0,675	0,727	0,776	0,824	0,87	0,915	0,958	1,0

fel30-7N, Picture A7-135-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*_{setrgbcolor}$

TUB-test chart fel3; fel3: In-output relation according to ISO 9241-306; 1MR, DH 000n/w/cmy0/rgb  
Viewing Y contrast  $Y_W:Y_N=88,9:10$ ;  $Y_N$  range 7,5 to <15  
->rgb\*\_d, 135-2:



<http://farbe.li.tu-berlin.de/fel3/fel310fa.txt> /.ps; only vector graphic VG;  
see separate images of this page: <http://farbe.li.tu-berlin.de/fel3/fel3.htm>

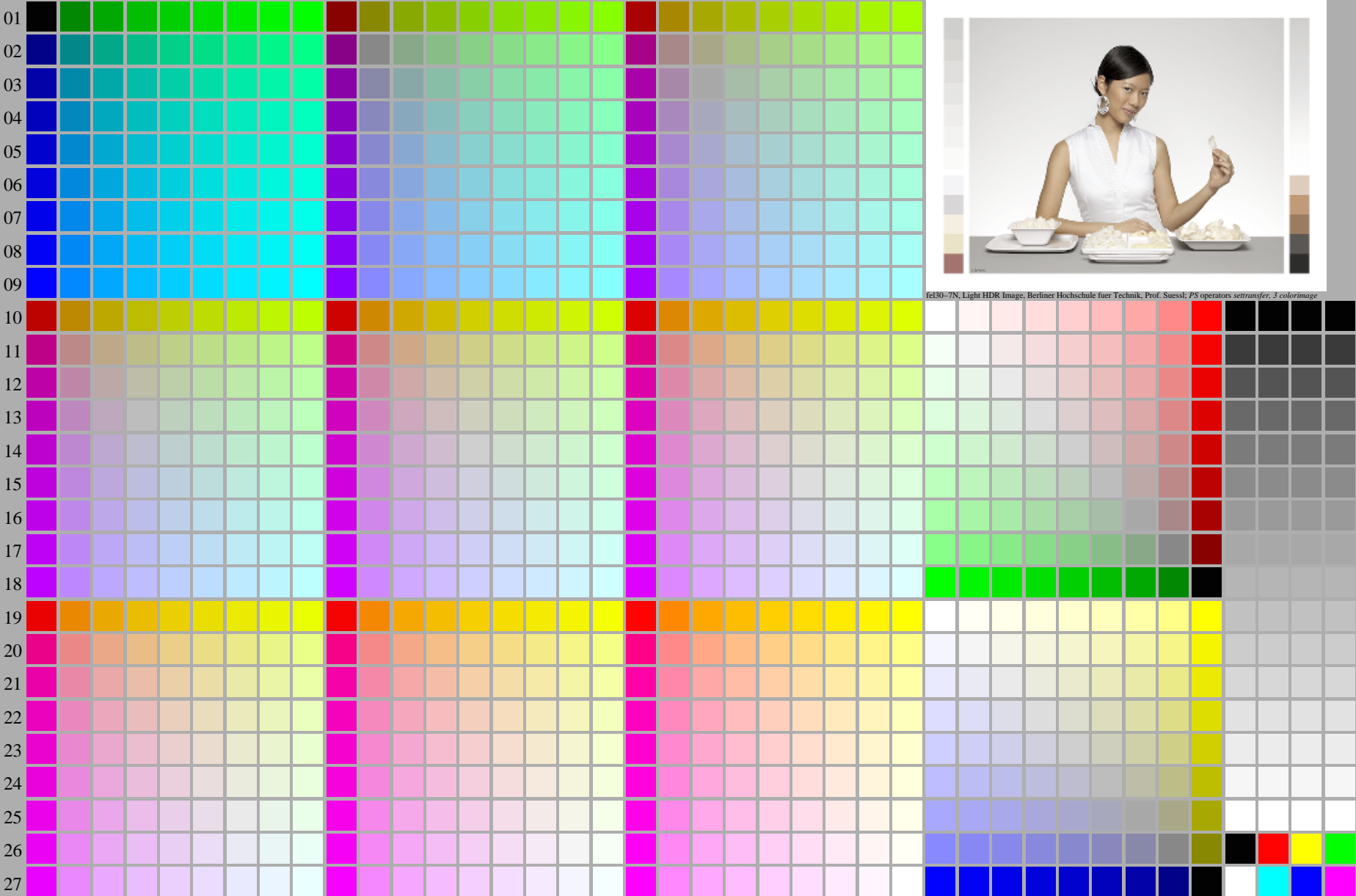


see similar files of the whole serie: <http://farbe.li.tu-berlin.de/fels.htm>  
technical information: <http://farbe.li.tu-berlin.de/A/33872E.html>  
or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

TUB registration: 20240301-fel3/fel310fa.txt /.ps  
application for evaluation and measurement of display or print output

TUB material: code=rh4ta

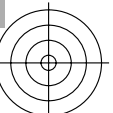
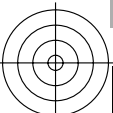
A B C D E F G H I J K L M N O P Q R S T U V W X Y Z a b c d e f g h i j k l m n



fel30-7N, Light HDR Image, Berliner Hochschule fuer Technik, Prof. Suessl; PS operators settransfer, 3 colorimage

fel30-7N, Page 1/16, Test chart 2G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^*_d(A_n)$ , colorm = 1, xchart = 6, pchart = 0

TUB-test chart fel3; fel3: Test chart 2g\_di with 40x27=1080 colours; 1MR, DH 000n/w/cmy0/rgb  
Digital equidistant 9 or 16 step colour scales  $\rightarrow rgb^*_d, 136-0:$



http://farbe.li.tu-berlin.de/fel3/fel310fa.txt /ps; only vector graphic VG;  
see separate images of this page: http://farbe.li.tu-berlin.de/fel3/fel31.htm

TUB registration: 20240301-fel3/fel310fa.txt /ps  
application for evaluation and measurement of display or print output  
TUB material: code rh4tra

see similar files of the whole serie: http://farbe.li.tu-berlin.de/fels.htm  
technical information: http://farbe.li.tu-berlin.de/AV3872E.html  
or http://standards.iso.org/iso/9241/306/ed-2/index.html

Table with 27 rows (01-27) and 100 columns (A-Z, a-z). Each cell contains numerical data representing color values for various colorants and scales.

fel30-70, Page 2/16, Test chart G with 40x27=1080 colours; digital equivalent 9 or 16 step colour scales; Colour data in column (A-n): rbg\*(A\_j + k26\_n27), 000n\*(k), w\*(l), nnn0\*(m), www\*(n), column = 1, xchart = 6, pchart = 1

TUB-test chart fel3; fel3: Test chart 2g di with 40x27=1080 colours; 1MR, DH 000n/w/cmy0/rgb  
Digital equivalent 9 or 16 step colour scales >rgb\*d, 136-1:

<http://farbe.li.tu-berlin.de/fel3/fel310fa.txt> /.ps; only vector graphic VG;  
see separate images of this page: <http://farbe.li.tu-berlin.de/fel3/fel3.htm>

see similar files of the whole serie: <http://farbe.li.tu-berlin.de/fels.htm>  
technical information: <http://farbe.li.tu-berlin.de/A/33872E.html>  
or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

TUB registration: 20240301-fel3/fel310fa.txt /.ps  
application for evaluation and measurement of display or print output  
TUB material: code=rh4ta

i	LAB*ref	l*out	LAB*out	LAB*out/c-ref	$\Delta E^*$
1	52.02	0.0	0.0	52.02	0.0
2	54.91	0.0	0.27	63.82	0.0
3	57.8	0.0	0.38	68.49	0.0
4	60.7	0.0	0.46	72.03	0.0
5	63.59	0.0	0.53	75.0	0.0
6	66.48	0.0	0.59	77.61	0.0
7	69.37	0.0	0.64	79.95	0.0
8	72.27	0.0	0.69	82.1	0.0
9	75.16	0.0	0.74	84.09	0.0
10	78.05	0.0	0.78	85.96	0.0
11	80.95	0.0	0.82	87.72	0.0
12	83.84	0.0	0.86	89.4	0.0
13	86.73	0.0	0.9	91.0	0.0
14	89.62	0.0	0.93	92.53	0.0
15	92.52	0.0	0.97	93.99	0.0
16	95.41	0.0	1.0	95.41	0.0
17	52.02	0.0	0.0	52.02	0.0
18	62.87	0.0	0.51	74.3	0.0
19	73.71	0.0	0.72	83.11	0.0
20	84.56	0.0	0.87	89.81	0.0
21	95.41	0.0	1.0	95.41	0.0

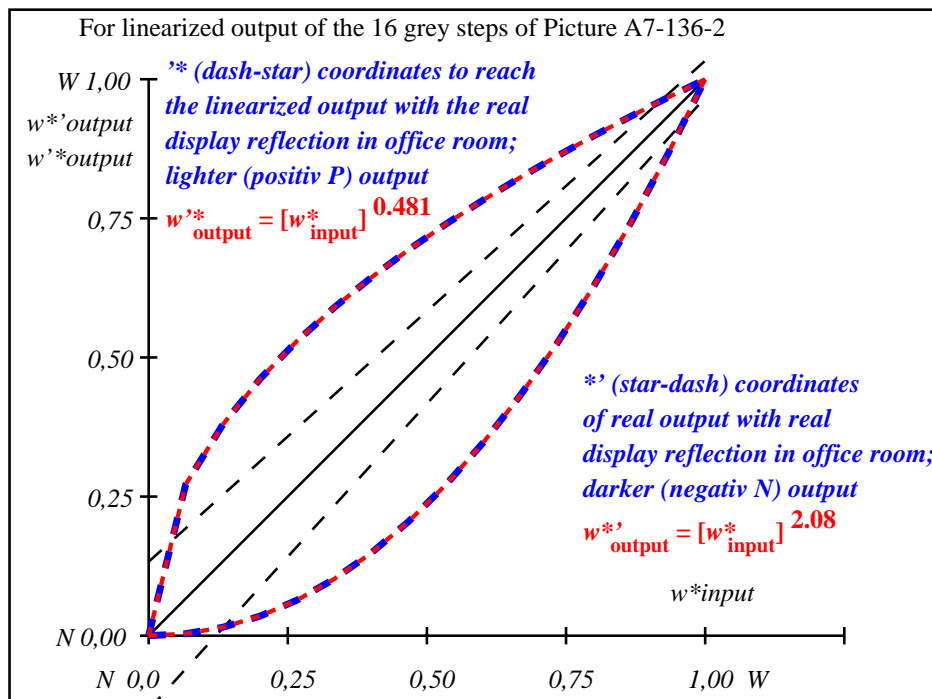
**Start output S1**  
**Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G**

Mean lightness difference (16 steps)  
 $\Delta E^*_{CIELAB} = 7.0$

Mean lightness difference (5 steps)  
 $\Delta L^*_{CIELAB} = 5.2$

Mean colour reproduction index:  $R^*_{ab,m} = 70$

fel30-3A-136-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



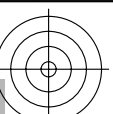
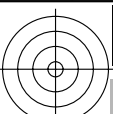
fel31-3N-136-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

$L^*/Y^*$ <sub>intended (absolute)</sub>	52.0/20.2	54.9/22.8	57.8/25.8	60.7/28.9	63.6/32.3	66.5/36.0	69.4/39.9	72.3/44.1	75.2/48.5	78.1/53.3	80.9/58.4	83.8/63.8	86.7/69.5	89.6/75.5	92.5/81.9	95.4/88.6
$w^* w^* w^*$ setrgb gp=0.55	00;F	01;E	02;D	03;C	04;B	05;A	06;9	07;8	08;7	09;6	10;5	11;4	12;3	13;2	14;1	15;0
$w^* = l^*$ CIELAB, r (relative)	0,000	0,067	0,133	0,200	0,267	0,333	0,400	0,467	0,533	0,600	0,667	0,733	0,800	0,867	0,933	1,000
$w^*$ <sub>intended</sub>	0,000	0,067	0,133	0,200	0,267	0,333	0,400	0,467	0,533	0,600	0,667	0,733	0,800	0,867	0,933	1,000
$w^*$ <sub>out</sub>	0,0	0,226	0,33	0,413	0,484	0,546	0,604	0,658	0,707	0,755	0,8	0,843	0,885	0,925	0,963	1,0

fel30-7N, Picture A7-136-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*$  setrgbcolor

TUB-test chart fel3; fel3: In-output relation according to ISO 9241-306; 1MR, DH 000n/w/cmy0/rgb  
Viewing Y contrast  $Y_W:Y_N=88,9:20$ ;  $Y_N$  range 15 to <30  
->rgb\*\_d, 136-2:

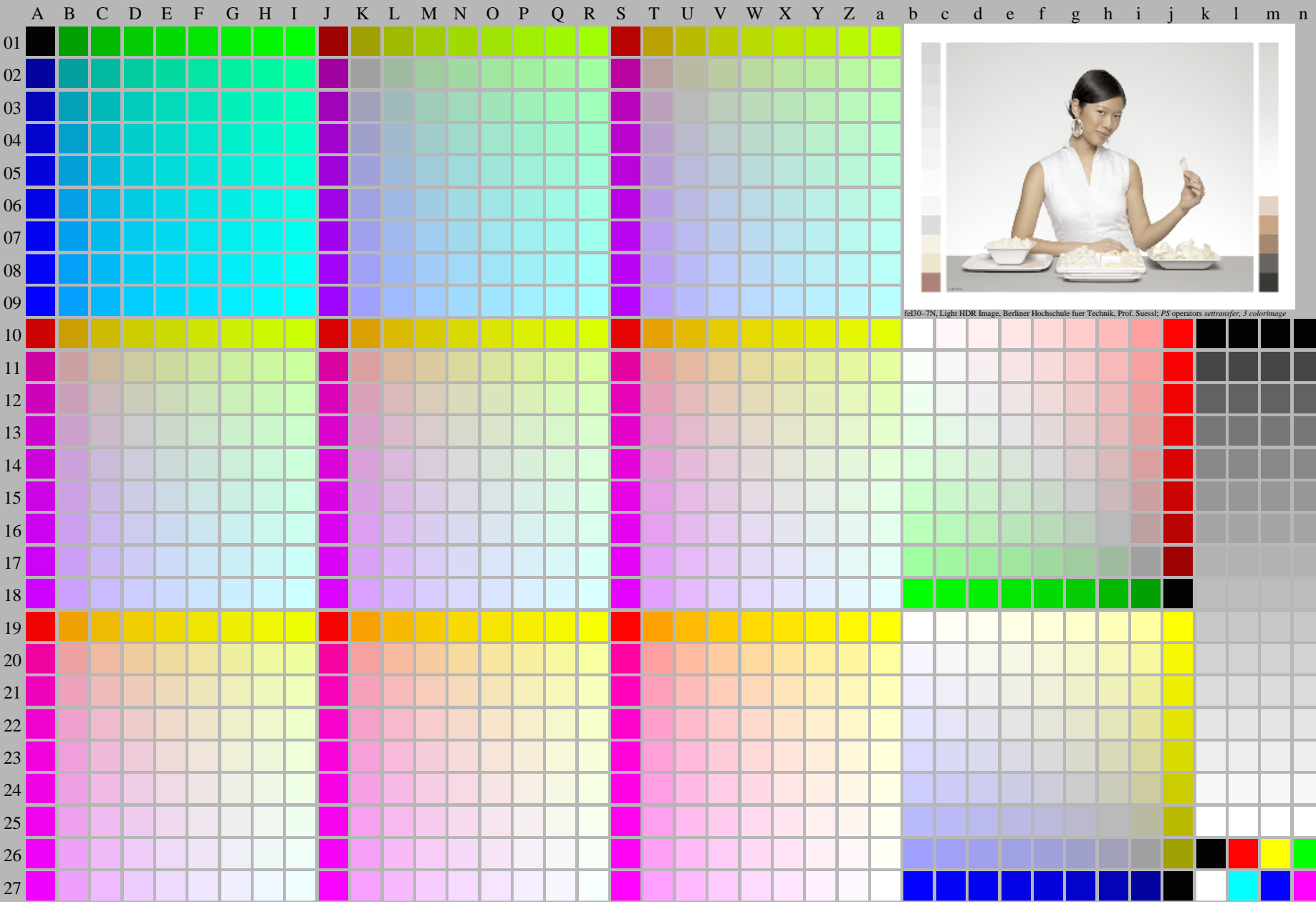
<http://farbe.li.tu-berlin.de/fel3/fel310fa.txt> /.ps; only vector graphic VG;  
see separate images of this page: <http://farbe.li.tu-berlin.de/fel3/fel3.htm>



see similar files of the whole serie: <http://farbe.li.tu-berlin.de/fels.htm>  
technical information: <http://farbe.li.tu-berlin.de/A/33872E.html>  
or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

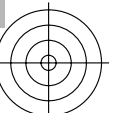
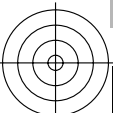
TUB registration: 20240301-fel3/fel310fa.txt /.ps  
application for evaluation and measurement of display or print output

TUB material: code=rh4ta



fel30-7N, Page 1/16, Test chart 2G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in column (A-n):  $rgb^*_{(A_n)}$ , colorm = 1, xchart = 7, pchart = 0

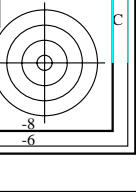
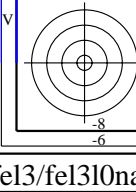
TUB-test chart fel3; fel3: Test chart 2g\_di with 40x27=1080 colours; 1MR, DH 000n/w/cmy0/rgb  
Digital equidistant 9 or 16 step colour scales  $\rightarrow rgb^*_d, 137-0:$



see similar files of the whole serie: <http://farbe.li.tu-berlin.de/AV3872E.html>  
technical information: <http://farbe.li.tu-berlin.de/AV3872E.html>  
or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

Table with columns labeled A-Z and a-b, and rows labeled 01-27. Each cell contains numerical data representing color and grayscale values for various display and print outputs.

fel30-70, Page 2/16, Test chart G with 40x27=1080 colours; digital equidistant 9 or 16 step colour scales; Colour data in (A\_n) : rgb\*(A\_j + k\_n27), 000n\*(k), w\*(l), nnn0\*(m), www\*(n), colormap = 1, xchart = 7, pchart = 1  
TUB-test chart fel3; fel3: Test chart 2g di with 40x27=1080 colours; Colour data in (A\_n) : rgb\*(A\_j + k\_n27), 000n\*(k), w\*(l), nnn0\*(m), www\*(n), colormap = 1, xchart = 7, pchart = 1  
>rgb\*\_d, 137-1:  
I=1371





see similar files of the whole serie: <http://farbe.li.tu-berlin.de/fels.htm>  
 technical information: <http://farbe.li.tu-berlin.de/A/33872E.html>  
 or <http://standards.iso.org/iso/9241/306/ed-2/index.html>

TUB registration: 20240301-fel3/fel310fa.txt /.ps  
 application for evaluation and measurement of display or print output  
 TUB material: code=rh4ta

i	LAB*ref	l*out	LAB*out	LAB*out/c-ref	$\Delta E^*$
1	69.7	0.0	69.7	0.0	0.01
2	71.41	0.0	77.46	0.0	6.04
3	73.13	0.0	80.24	0.0	7.11
4	74.84	0.0	82.31	0.0	7.47
5	76.55	0.0	84.02	0.0	7.47
6	78.27	0.0	85.51	0.0	7.24
7	79.98	0.0	86.84	0.0	6.86
8	81.7	0.0	88.05	0.0	6.35
9	83.41	0.0	89.17	0.0	5.76
10	85.12	0.0	90.21	0.0	5.08
11	86.84	0.0	91.19	0.0	4.35
12	88.55	0.0	92.11	0.0	3.56
13	90.27	0.0	92.99	0.0	2.73
14	91.98	0.0	93.83	0.0	1.85
15	93.7	0.0	94.64	0.0	0.94
16	95.41	0.0	95.41	0.0	0.01
17	69.7	0.0	69.7	0.0	0.01
18	76.13	0.0	83.62	0.0	7.5
19	82.55	0.0	88.62	0.0	6.06
20	88.98	0.0	92.34	0.0	3.35
21	95.41	0.0	95.41	0.0	0.01

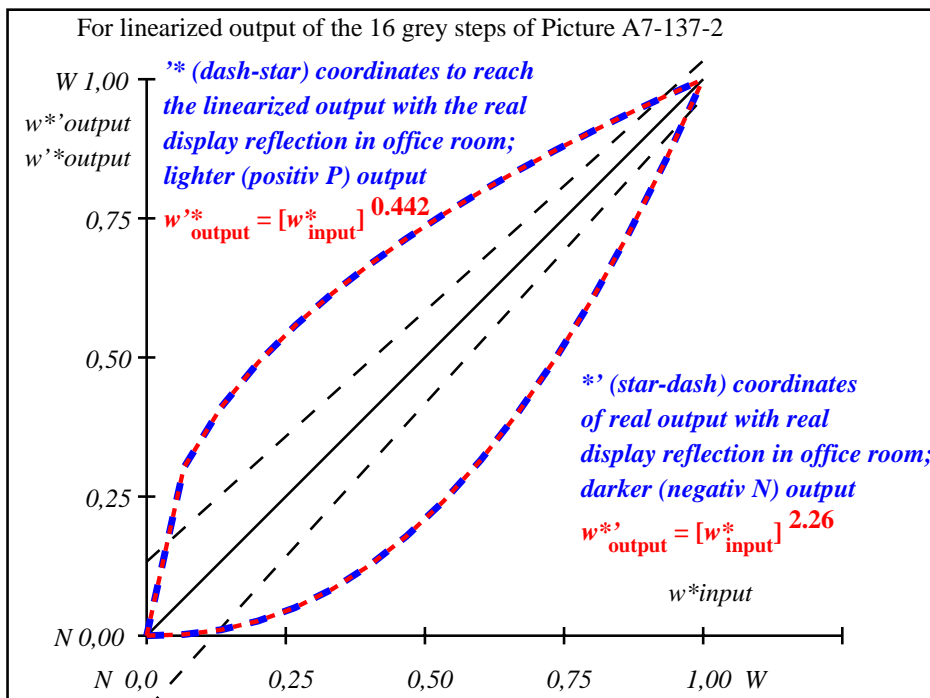
**Start output S1**  
**Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G**

Mean lightness difference (16 steps)  
 $\Delta E^*_{CIELAB} = 4.6$

Mean lightness difference (5 steps)  
 $\Delta L^*_{CIELAB} = 3.4$

Mean colour reproduction index:  $R^*_{ab,m} = 80$

fel30-3A-137-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



fel31-3N-137-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

$L^*/Y_{intended}$ (absolute)	69.7/40.3	71.4/42.8	73.1/45.4	74.8/48.0	76.6/50.8	78.3/53.7	80.0/56.6	81.7/59.7	83.4/62.9	85.1/66.3	86.8/69.7	88.6/73.2	90.3/76.9	92.0/80.7	93.7/84.6	95.4/88.6
$w^* w^* w^*$ setrgb																
gp=0.48																
No. and Hex code	00;F	01;E	02;D	03;C	04;B	05;A	06;9	07;8	08;7	09;6	10;5	11;4	12;3	13;2	14;1	15;0
$w^* = l^*_{CIELAB, r}$ (relative)																
$w^*_{intended}$	0,000	0,067	0,133	0,200	0,267	0,333	0,400	0,467	0,533	0,600	0,667	0,733	0,800	0,867	0,933	1,000
$w^*_{out}$	0.0	0.277	0.384	0.466	0.534	0.593	0.647	0.697	0.742	0.785	0.825	0.863	0.899	0.934	0.968	1.0

fel30-7N, Picture A7-137-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*$  setrgbcolor

TUB-test chart fel3; fel3: In-output relation according to ISO 9241-306; 1MR, DH 000n/w/cmy0/rgb  
 Viewing Y contrast  $Y_W:Y_N=88,9:40$ ;  $Y_N$  range 30 to <60  
 ->rgb\*\_d, 137-2: