

See for similar files: <http://www.ps.bam.de/CE74/>  
Technical information: <http://www.ps.bam.de/9241/>

BAM registration: 20040101-CE74/10L/L74E00FP.PS/.PDF  
Application for achromatic display output with CIELAB contrast range  $L^*/w:L^*n = 95.4 : 0.0$

BAM material: code=rha4fa  
 $L^*/w:L^*n = 95.4 : 0.0$

Version 2.0, io=d,d, CIELAB, 1.0 exp



$L^*/Y_{intended}$ (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
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)																
$w^*_{intended}$ $Y_t / Y_{tmax}$	0.0 0.0	0.067 0.008	0.133 0.017	0.2 0.031	0.267 0.051	0.333 0.079	0.4 0.115	0.467 0.16	0.533 0.216	0.6 0.284	0.667 0.365	0.733 0.459	0.8 0.569	0.867 0.695	0.933 0.838	1.0 1.0

Picture C3: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $000n^* setcmykcolor$

$L^*/Y_{intended}$ (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
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)																
$w^*_{intended}$ $Y_t / Y_{tmax}$	0.0 0.0	0.067 0.008	0.133 0.017	0.2 0.031	0.267 0.051	0.333 0.079	0.4 0.115	0.467 0.16	0.533 0.216	0.6 0.284	0.667 0.365	0.733 0.459	0.8 0.569	0.867 0.695	0.933 0.838	1.0 1.0

Picture C3: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* setgray$

$L^*/Y_{intended}$ (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
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)																
$w^*_{intended}$ $Y_t / Y_{tmax}$	0.0 0.0	0.067 0.008	0.133 0.017	0.2 0.031	0.267 0.051	0.333 0.079	0.4 0.115	0.467 0.16	0.533 0.216	0.6 0.284	0.667 0.365	0.733 0.459	0.8 0.569	0.867 0.695	0.933 0.838	1.0 1.0

Picture C3: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $nnn0^* setcmykcolor$

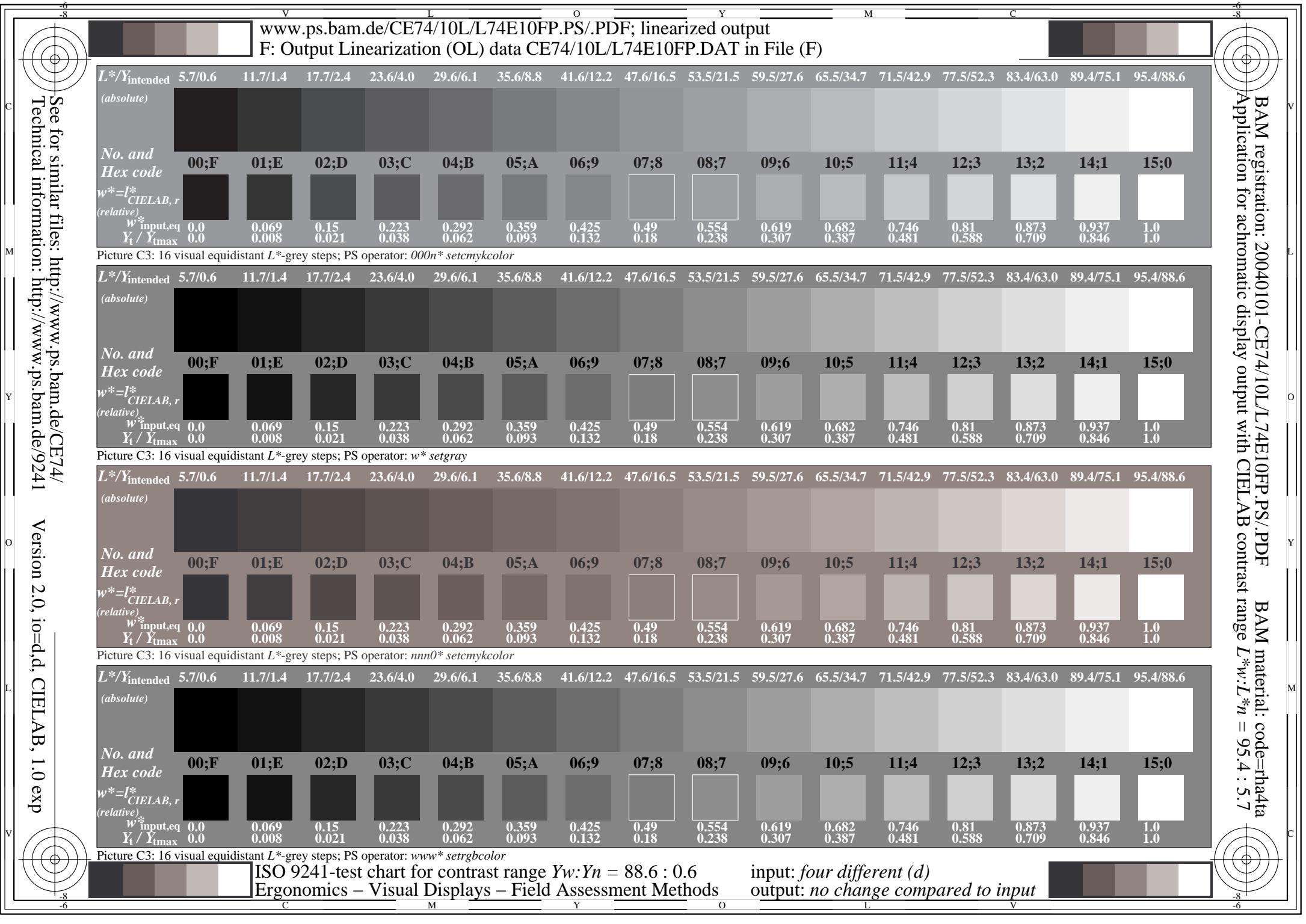
$L^*/Y_{intended}$ (absolute)	0.0/0.0	6.4/0.7	12.7/1.5	19.1/2.8	25.4/4.6	31.8/7.0	38.2/10.2	44.5/14.2	50.9/19.2	57.2/25.2	63.6/32.3	70.0/40.7	76.3/50.4	82.7/61.6	89.0/74.3	95.4/88.6
No. and Hex code	00;F	01;E	02;D	03;C	04;B	05;A	06;9	07;8	08;7	09;6	10;5	11;4	12;3	13;2	14;1	15;0
$w^* = l^*_{CIELAB, r}$ (relative)																
$w^*_{intended}$ $Y_t / Y_{tmax}$	0.0 0.0	0.067 0.008	0.133 0.017	0.2 0.031	0.267 0.051	0.333 0.079	0.4 0.115	0.467 0.16	0.533 0.216	0.6 0.284	0.667 0.365	0.733 0.459	0.8 0.569	0.867 0.695	0.933 0.838	1.0 1.0

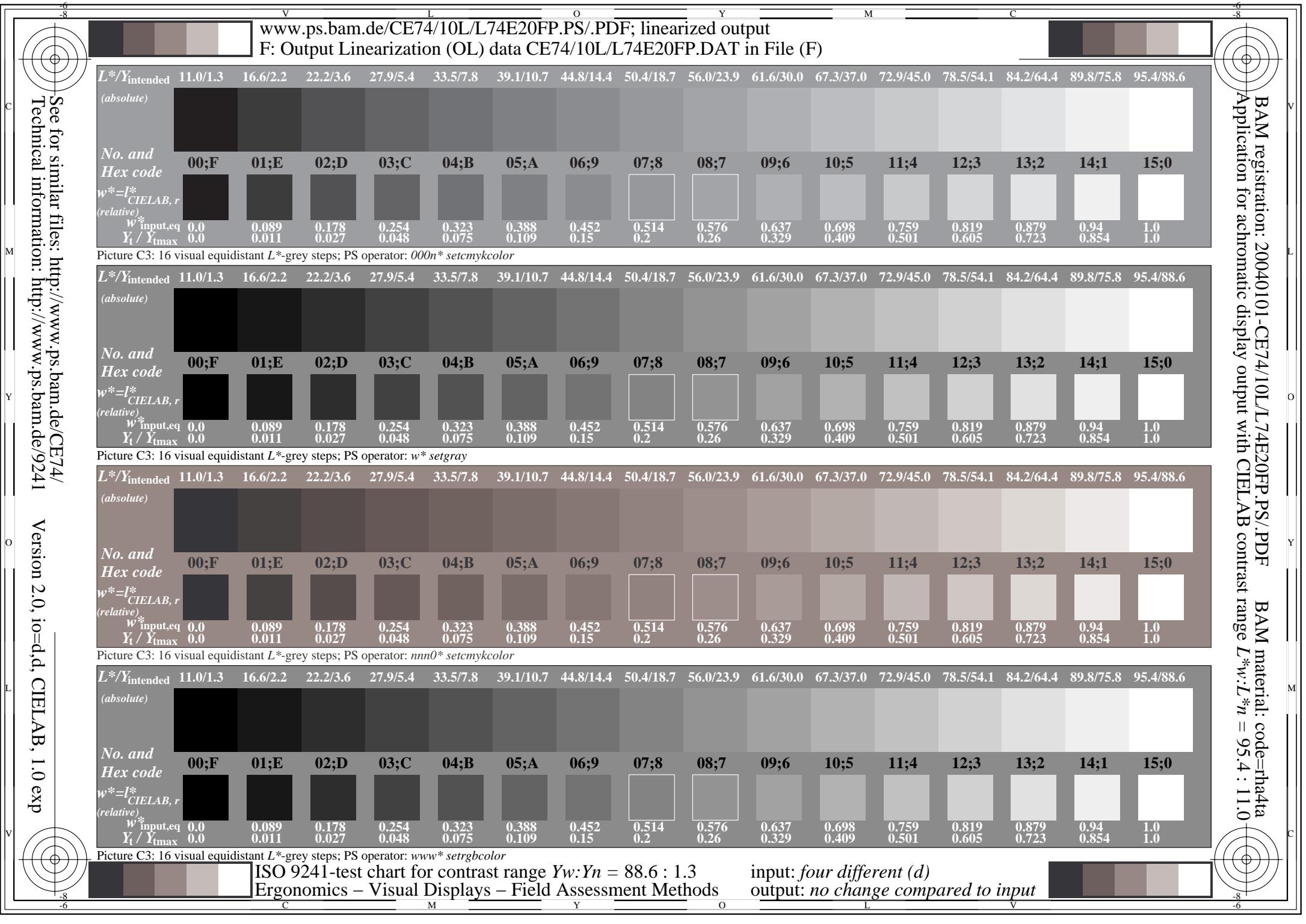
Picture C3: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $www^* setrgbcolor$

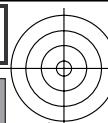
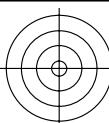
$L^*/Y_{intended}$ (absolute)	0.0/0.0	6.4/0.7	12.7/1.5	19.1/2.8	25.4/4.6	31.8/7.0	38.2/10.2	44.5/14.2	50.9/19.2	57.2/25.2	63.6/32.3	70.0/40.7	76.3/50.4	82.7/61.6	89.0/74.3	95.4/88.6
No. and Hex code	00;F	01;E	02;D	03;C	04;B	05;A	06;9	07;8	08;7	09;6	10;5	11;4	12;3	13;2	14;1	15;0
$w^* = l^*_{CIELAB, r}$ (relative)																
$w^*_{intended}$ $Y_t / Y_{tmax}$	0.0 0.0	0.067 0.008	0.133 0.017	0.2 0.031	0.267 0.051	0.333 0.079	0.4 0.115	0.467 0.16	0.533 0.216	0.6 0.284	0.667 0.365	0.733 0.459	0.8 0.569	0.867 0.695	0.933 0.838	1.0 1.0

ISO 9241-test chart for contrast range  $Y_w:Y_n = 88.6 : 0.0$   
Ergonomics – Visual Displays – Field Assessment Methods

input: four different (d)  
output: no change compared to input



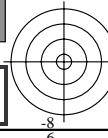
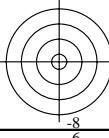




BAM registration: 20040101-CE74/10L/L74E30FP.PS/.PDF  
Application for achromatic display output with CIELAB contrast range  $L^*/w:L^*n = 95.4 : 18.0$

See for similar files: <http://www.ps.bam.de/CE74/>  
Technical information: <http://www.ps.bam.de/9241>

Version 2.0, io=d,d, CIELAB, 1.0 exp



$L^*/Y_{intended}$ (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
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)																
$w^*_{input,eq}$ $Y_t / Y_{tmax}$	0.0 0.0	0.121 0.015	0.214 0.036	0.29 0.061	0.358 0.092	0.422 0.13	0.484 0.175	0.544 0.227	0.603 0.288	0.661 0.358	0.718 0.438	0.775 0.527	0.831 0.628	0.887 0.74	0.944 0.864	1.0 1.0

Picture C3: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $000n^* setcmykcolor$

$L^*/Y_{intended}$ (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
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)																
$w^*_{input,eq}$ $Y_t / Y_{tmax}$	0.0 0.0	0.121 0.015	0.214 0.036	0.29 0.061	0.358 0.092	0.422 0.13	0.484 0.175	0.544 0.227	0.603 0.288	0.661 0.358	0.718 0.438	0.775 0.527	0.831 0.628	0.887 0.74	0.944 0.864	1.0 1.0

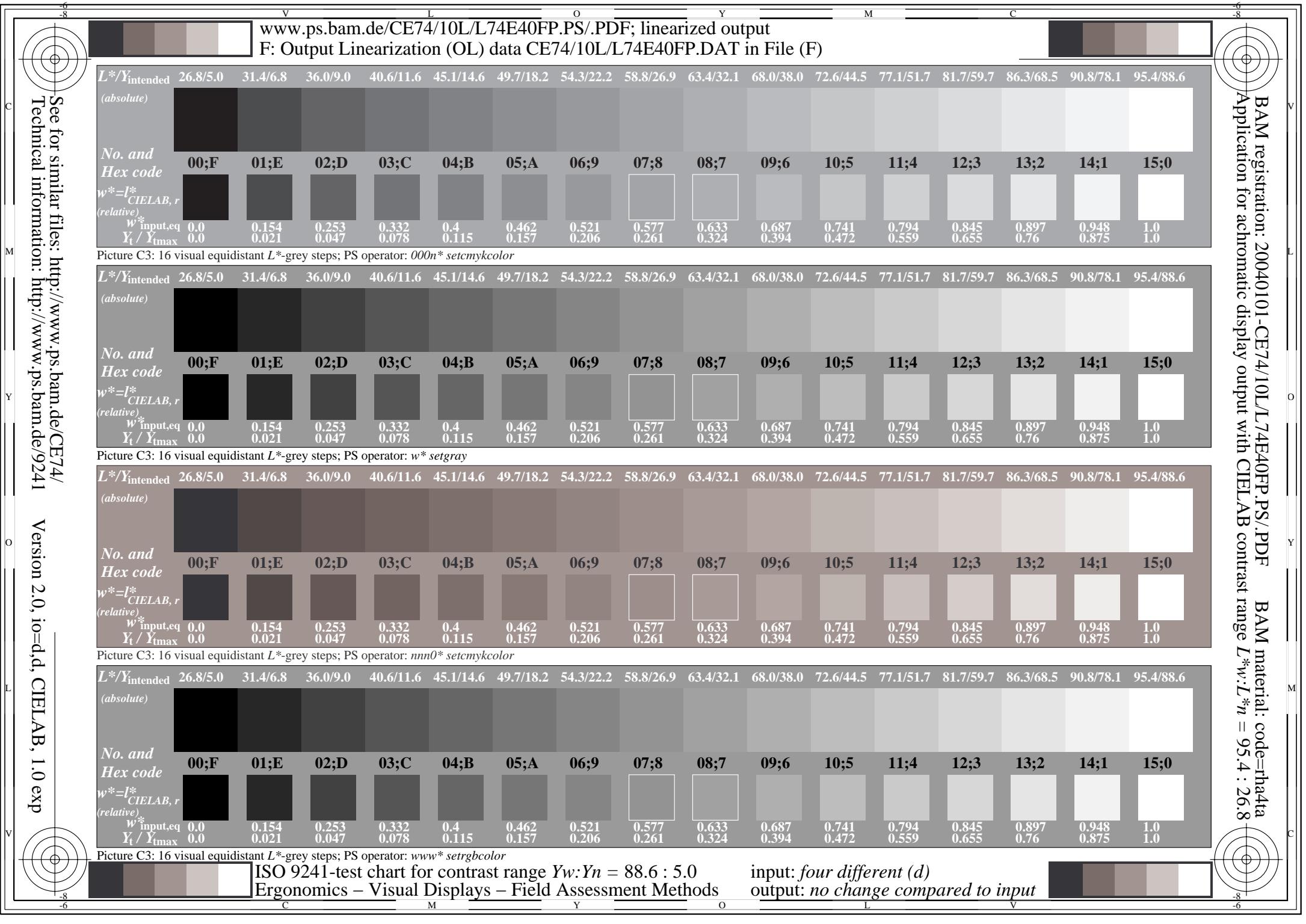
Picture C3: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* setgray$

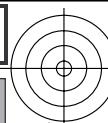
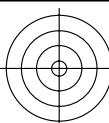
$L^*/Y_{intended}$ (absolute)	18.0/2.5	23.2/3.8	28.3/5.6	33.5/7.8	38.6/10.5	43.8/13.7	49.0/17.6	54.1/22.1	59.3/27.3	64.4/33.4	69.6/40.2	74.8/47.9	79.9/56.6	85.1/66.2	90.2/76.8	95.4/88.6
No. and Hex code	00;F	01;E	02;D	03;C	04;B	05;A	06;9	07;8	08;7	09;6	10;5	11;4	12;3	13;2	14;1	15;0
$w^* = l^*_{CIELAB, r}$ (relative)																
$w^*_{input,eq}$ $Y_t / Y_{tmax}$	0.0 0.0	0.121 0.015	0.214 0.036	0.29 0.061	0.358 0.092	0.422 0.13	0.484 0.175	0.544 0.227	0.603 0.288	0.661 0.358	0.718 0.438	0.775 0.527	0.831 0.628	0.887 0.74	0.944 0.864	1.0 1.0

Picture C3: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $nnn0^* setcmykcolor$

$L^*/Y_{intended}$ (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
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)																
$w^*_{input,eq}$ $Y_t / Y_{tmax}$	0.0 0.0	0.121 0.015	0.214 0.036	0.29 0.061	0.358 0.092	0.422 0.13	0.484 0.175	0.544 0.227	0.603 0.288	0.661 0.358	0.718 0.438	0.775 0.527	0.831 0.628	0.887 0.74	0.944 0.864	1.0 1.0

Picture C3: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $www^* setrgbcolor$





BAM registration: 20040101-CE74/10L/L74E50FP.PS/.PDF  
 Application for achromatic display output with CIELAB contrast range  $L^*/w:L^*n = 95.4 : 38.0$

$L^*/Y_{intended}$ (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
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)																
$w^*_{input,eq}$ $Y_t / Y_{tmax}$	0.0 0.0	0.191 0.029	0.294 0.063	0.373 0.101	0.441 0.143	0.503 0.191	0.56 0.243	0.615 0.302	0.667 0.366	0.717 0.436	0.766 0.513	0.814 0.596	0.862 0.686	0.908 0.783	0.954 0.888	1.0 1.0

Picture C3: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $000n^* setcmykcolor$

$L^*/Y_{intended}$ (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
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)																
$w^*_{input,eq}$ $Y_t / Y_{tmax}$	0.0 0.0	0.191 0.029	0.294 0.063	0.373 0.101	0.441 0.143	0.503 0.191	0.56 0.243	0.615 0.302	0.667 0.366	0.717 0.436	0.766 0.513	0.814 0.596	0.862 0.686	0.908 0.783	0.954 0.888	1.0 1.0

Picture C3: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* setgray$

$L^*/Y_{intended}$ (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
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)																
$w^*_{input,eq}$ $Y_t / Y_{tmax}$	0.0 0.0	0.191 0.029	0.294 0.063	0.373 0.101	0.441 0.143	0.503 0.191	0.56 0.243	0.615 0.302	0.667 0.366	0.717 0.436	0.766 0.513	0.814 0.596	0.862 0.686	0.908 0.783	0.954 0.888	1.0 1.0

Picture C3: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $nnn0^* setcmykcolor$

$L^*/Y_{intended}$ (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
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)																
$w^*_{input,eq}$ $Y_t / Y_{tmax}$	0.0 0.0	0.191 0.029	0.294 0.063	0.373 0.101	0.441 0.143	0.503 0.191	0.56 0.243	0.615 0.302	0.667 0.366	0.717 0.436	0.766 0.513	0.814 0.596	0.862 0.686	0.908 0.783	0.954 0.888	1.0 1.0

Picture C3: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $www^* setrgbcolor$

ISO 9241-test chart for contrast range  $Y_w:Y_n = 88.6 : 10.1$   
 Ergonomics – Visual Displays – Field Assessment Methods

input: four different (d)  
 output: no change compared to input

