

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

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

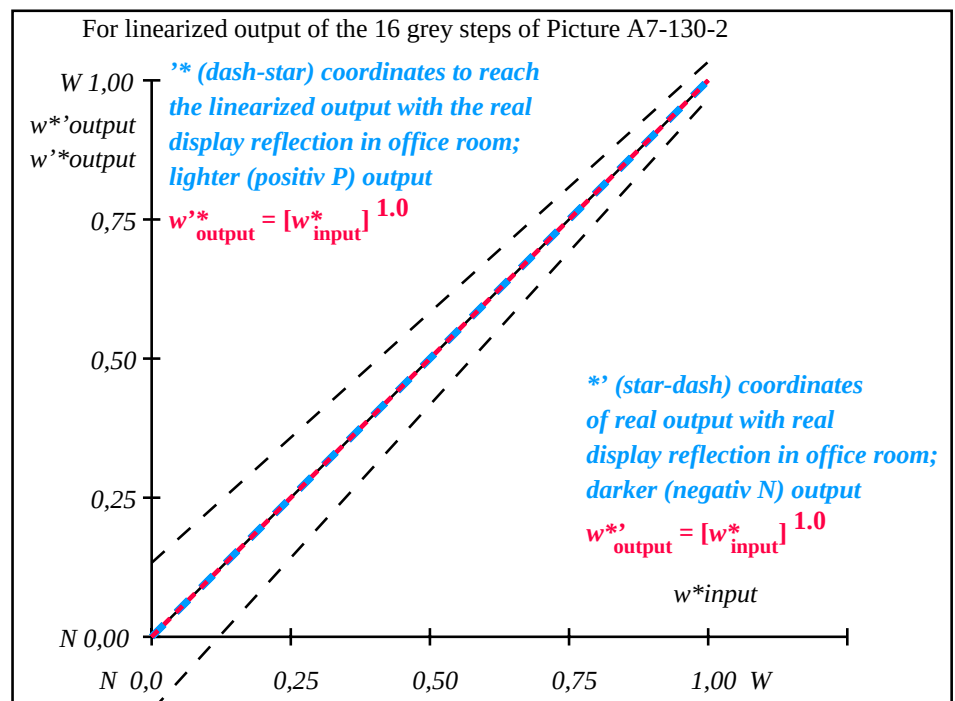
Start output S1
Specification according to
ISO/IEC 15775 Annex G
and DIN 33866-1 Annex G

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

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

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

OE890-3N-130-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE891-3N-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 $g_P=1.0$ 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
$w^*=l^*_{\text{CIELAB},r}$ (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} w^*_{out}	0.000 0.0	0.067 0.067	0.133 0.133	0.200 0.2	0.267 0.267	0.333 0.333	0.400 0.4	0.467 0.467	0.533 0.533	0.600 0.6	0.667 0.667	0.733 0.733	0.800 0.8	0.867 0.867	0.933 0.933	1.000 1.0

OE890-7N, Picture A7-130-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^*$ setrgbcolor

OE89: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:0,31$; Y_N range 0,0 to <0,46

input: $cmy0$ (-> $cmy0^*_{de}$) setcmyk
output 130-2: $g_P=1.0$; $g_N=1.0$

TUB registration: 20110801-OE89/OE89L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

i	LAB*ref	l*out	LAB*out	LAB*out/c-ref	ΔE*
1	5.69 0.0 0.0	0.0	5.69 0.0 0.0	0.0 0.0 0.0	0.01
2	11.67 0.0 0.0	0.1	14.73 0.0 0.0	3.06 0.0 0.0	3.06
3	17.65 0.0 0.0	0.18	21.96 0.0 0.0	4.3 0.0 0.0	4.3
4	23.63 0.0 0.0	0.26	28.63 0.0 0.0	4.99 0.0 0.0	4.99
5	29.62 0.0 0.0	0.33	34.96 0.0 0.0	5.34 0.0 0.0	5.34
6	35.6 0.0 0.0	0.39	41.05 0.0 0.0	5.46 0.0 0.0	5.46
7	41.58 0.0 0.0	0.46	46.96 0.0 0.0	5.38 0.0 0.0	5.38
8	47.56 0.0 0.0	0.52	52.72 0.0 0.0	5.16 0.0 0.0	5.16
9	53.54 0.0 0.0	0.59	58.36 0.0 0.0	4.82 0.0 0.0	4.82
10	59.52 0.0 0.0	0.65	63.88 0.0 0.0	4.36 0.0 0.0	4.36
11	65.5 0.0 0.0	0.71	69.32 0.0 0.0	3.82 0.0 0.0	3.82
12	71.48 0.0 0.0	0.77	74.67 0.0 0.0	3.19 0.0 0.0	3.19
13	77.47 0.0 0.0	0.83	79.95 0.0 0.0	2.49 0.0 0.0	2.49
14	83.45 0.0 0.0	0.89	85.16 0.0 0.0	1.72 0.0 0.0	1.72
15	89.43 0.0 0.0	0.94	90.31 0.0 0.0	0.89 0.0 0.0	0.89
16	95.41 0.0 0.0	1.0	95.41 0.0 0.0	0.0 0.0 0.0	0.01
17	5.69 0.0 0.0	0.0	5.69 0.0 0.0	0.0 0.0 0.0	0.01
18	28.12 0.0 0.0	0.31	33.4 0.0 0.0	5.28 0.0 0.0	5.28
19	50.55 0.0 0.0	0.56	55.55 0.0 0.0	5.0 0.0 0.0	5.0
20	72.98 0.0 0.0	0.78	76.0 0.0 0.0	3.02 0.0 0.0	3.02
21	95.41 0.0 0.0	1.0	95.41 0.0 0.0	0.0 0.0 0.0	0.01

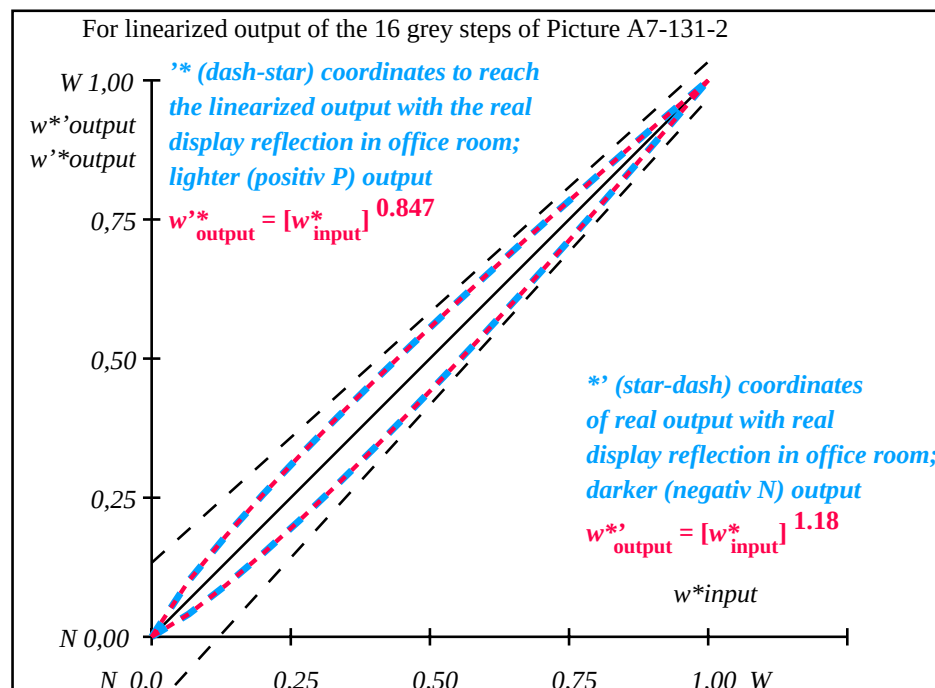
Start output S1
Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G

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

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

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

OE890-3N-131-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE891-3N-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
$w^* w^* w^*$ setrgb $g_P=0.85$ 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	0.101	0.181	0.256	0.327	0.394	0.46	0.525	0.587	0.649	0.71	0.769	0.828	0.886	0.943	1.0

OE890-7N, Picture A7-131-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^*$ setrgbcolor

OE89: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:0,62$; Y_N range 0,46 to <0,93

input: $cmy0$ (-> $cmy0^*_{de}$) setcmyk
output 131-2: $g_P=0.92$; $g_N=1.0$

TUB registration: 20110801-OE89/OE89L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

i	LAB*ref	L*out	LAB*out	LAB*out/c-ref	ΔE*
1	10.99 0.0 0.0	10.99 0.0 0.0	10.99 0.0 0.0	0.0 0.0 0.0	0.01
2	16.62 0.0 0.0	14 22.52 0.0 0.0	16.62 0.0 0.0	5.9 0.0 0.0	5.9
3	22.25 0.0 0.0	23 30.18 0.0 0.0	22.25 0.0 0.0	7.93 0.0 0.0	7.93
4	27.88 0.0 0.0	31 36.84 0.0 0.0	27.88 0.0 0.0	8.97 0.0 0.0	8.97
5	33.5 0.0 0.0	38 42.93 0.0 0.0	33.5 0.0 0.0	9.43 0.0 0.0	9.43
6	39.13 0.0 0.0	45 48.63 0.0 0.0	39.13 0.0 0.0	9.5 0.0 0.0	9.5
7	44.76 0.0 0.0	51 54.03 0.0 0.0	44.76 0.0 0.0	9.27 0.0 0.0	9.27
8	50.39 0.0 0.0	57 59.19 0.0 0.0	50.39 0.0 0.0	8.81 0.0 0.0	8.81
9	56.02 0.0 0.0	63 64.17 0.0 0.0	56.02 0.0 0.0	8.15 0.0 0.0	8.15
10	61.64 0.0 0.0	69 68.98 0.0 0.0	61.64 0.0 0.0	7.33 0.0 0.0	7.33
11	67.27 0.0 0.0	74 73.65 0.0 0.0	67.27 0.0 0.0	6.38 0.0 0.0	6.38
12	72.9 0.0 0.0	8 78.2 0.0 0.0	72.9 0.0 0.0	5.3 0.0 0.0	5.3
13	78.53 0.0 0.0	0.85 82.64 0.0 0.0	78.53 0.0 0.0	4.11 0.0 0.0	4.11
14	84.15 0.0 0.0	0.9 86.98 0.0 0.0	84.15 0.0 0.0	2.82 0.0 0.0	2.82
15	89.78 0.0 0.0	0.95 91.23 0.0 0.0	89.78 0.0 0.0	1.45 0.0 0.0	1.45
16	95.41 0.0 0.0	1.0 95.41 0.0 0.0	95.41 0.0 0.0	0.0 0.0 0.0	0.01
17	10.99 0.0 0.0	10.99 0.0 0.0	10.99 0.0 0.0	0.0 0.0 0.0	0.01
18	32.1 0.0 0.0	0.36 41.45 0.0 0.0	32.1 0.0 0.0	9.36 0.0 0.0	9.36
19	53.2 0.0 0.0	0.6 61.7 0.0 0.0	53.2 0.0 0.0	8.5 0.0 0.0	8.5
20	74.31 0.0 0.0	0.81 79.32 0.0 0.0	74.31 0.0 0.0	5.01 0.0 0.0	5.01
21	95.41 0.0 0.0	1.0 95.41 0.0 0.0	95.41 0.0 0.0	0.0 0.0 0.0	0.01

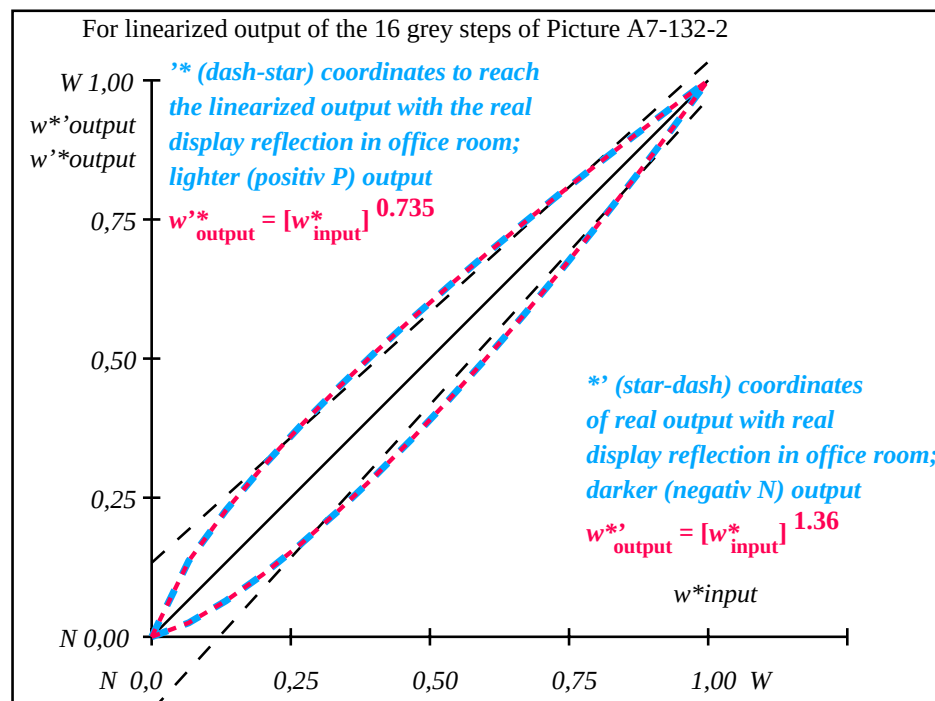
Start output S1
Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G

Mean lightness difference (16 steps) $\Delta E^*_{CIELAB} = 6.0$

Mean lightness difference (5 steps) $\Delta L^*_{CIELAB} = 4.6$

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

OE890-3N-132-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE891-3N-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
$w^* w^* w^*$ setrgb $g_P=0.74$ 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)	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
$w^*_{intended}$ w^*_{out}	0.000 0.0	0.067 0.137	0.133 0.227	0.200 0.306	0.267 0.379	0.333 0.446	0.400 0.51	0.467 0.571	0.533 0.63	0.600 0.687	0.667 0.742	0.733 0.796	0.800 0.849	0.867 0.9	0.933 0.95	1.000 1.0

OE890-7N, Picture A7-132-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^*$ setrgbcolor

OE89: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:1,25$; Y_N range 0,93 to <1,87

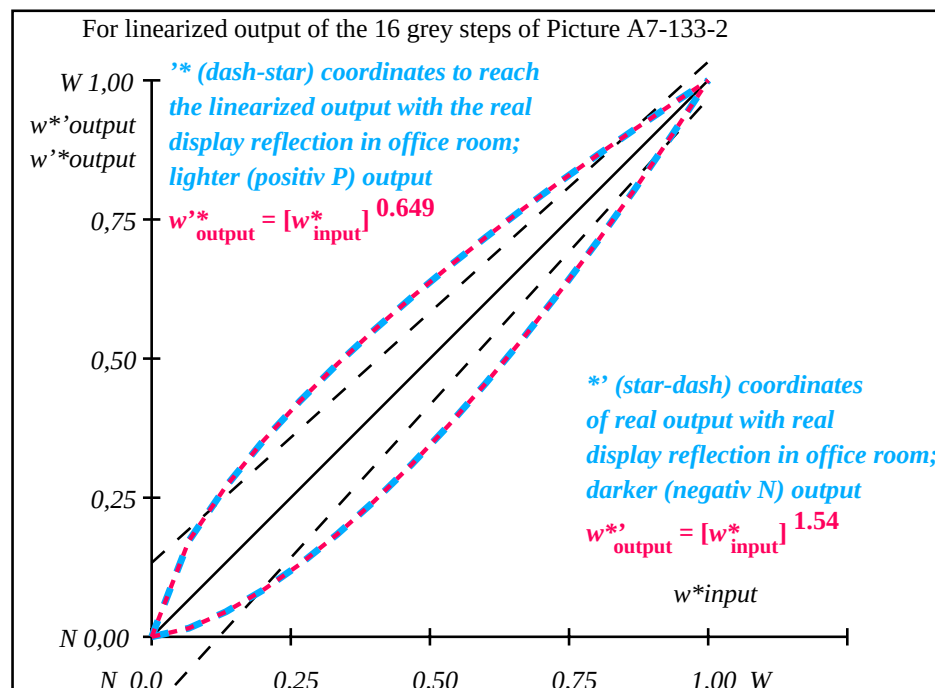
input: $cmy0$ ($\rightarrow cmy0^*_{de}$) setcmyk
output 132-2: $g_P=0.85$; $g_N=1.0$

TUB registration: 20110801-OE89/OE89L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

i	LAB*ref	L*out	LAB*out	LAB*out/c-ref	ΔE*
1	18.01 0.0 0.0	0.0 18.01 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.01
2	23.17 0.0 0.0	0.17 31.35 0.0	0.0 0.0 8.18	0.0 0.0 8.18	8.18
3	28.33 0.0 0.0	0.27 38.93 0.0	0.0 0.0 10.6	0.0 0.0 10.6	10.6
4	33.49 0.0 0.0	0.35 45.23 0.0	0.0 0.0 11.74	0.0 0.0 11.74	11.74
5	38.65 0.0 0.0	0.42 50.82 0.0	0.0 0.0 12.17	0.0 0.0 12.17	12.17
6	43.81 0.0 0.0	0.49 55.93 0.0	0.0 0.0 12.12	0.0 0.0 12.12	12.12
7	48.97 0.0 0.0	0.55 60.7 0.0	0.0 0.0 11.73	0.0 0.0 11.73	11.73
8	54.13 0.0 0.0	0.61 65.2 0.0	0.0 0.0 11.07	0.0 0.0 11.07	11.07
9	59.29 0.0 0.0	0.66 69.47 0.0	0.0 0.0 10.18	0.0 0.0 10.18	10.18
10	64.45 0.0 0.0	0.72 73.56 0.0	0.0 0.0 9.11	0.0 0.0 9.11	9.11
11	69.61 0.0 0.0	0.77 77.49 0.0	0.0 0.0 7.88	0.0 0.0 7.88	7.88
12	74.77 0.0 0.0	0.82 81.29 0.0	0.0 0.0 6.52	0.0 0.0 6.52	6.52
13	79.93 0.0 0.0	0.87 84.97 0.0	0.0 0.0 5.04	0.0 0.0 5.04	5.04
14	85.09 0.0 0.0	0.91 88.54 0.0	0.0 0.0 3.45	0.0 0.0 3.45	3.45
15	90.25 0.0 0.0	0.96 92.02 0.0	0.0 0.0 1.77	0.0 0.0 1.77	1.77
16	95.41 0.0 0.0	1.0 95.41 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.01
17	18.01 0.0 0.0	0.0 18.01 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.01
18	37.36 0.0 0.0	0.41 49.47 0.0	0.0 0.0 12.11	0.0 0.0 12.11	12.11
19	56.71 0.0 0.0	0.64 67.36 0.0	0.0 0.0 10.65	0.0 0.0 10.65	10.65
20	76.06 0.0 0.0	0.83 82.22 0.0	0.0 0.0 6.16	0.0 0.0 6.16	6.16
21	95.41 0.0 0.0	1.0 95.41 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.01
Mean lightness difference (16 steps)					ΔE* _{CIELAB} = 7.6
Mean lightness difference (5 steps)					ΔL* _{CIELAB} = 5.8
Mean colour reproduction index:					R* _{ab,m} = 67

OE890-3N-133-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE891-3N-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																
$g_P=0.65$																
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	0.173	0.27	0.352	0.424	0.49	0.552	0.61	0.665	0.718	0.769	0.817	0.865	0.911	0.956	1.0

OE890-7N, Picture A7-133-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^*$ setrgbcolor

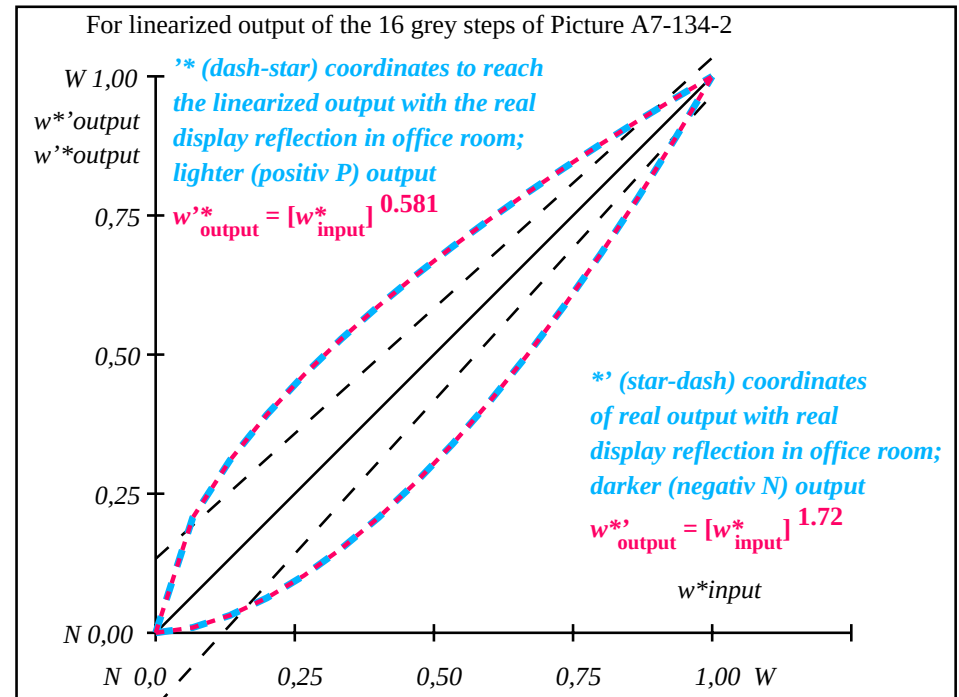
OE89: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:2,5$; Y_N range 1,87 to <3,75

input: $cmy0$ (-> $cmy0^*_{de}$) setcmyk
output 133-2: $g_P=0.77$; $g_N=1.0$

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

i	LAB*ref			l*out			LAB*out			LAB*out/c-ref			ΔE*	Start output S1
1	26.85	0.0	0.0	0.0	26.85	0.0	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			
16	95.41	0.0	0.0	1.0	95.41	0.0	0.0	0.0	0.0	0.0	0.01			
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			
21	95.41	0.0	0.0	1.0	95.41	0.0	0.0	0.0	0.0	0.0	0.01			
Mean colour reproduction index: $R^*_{ab,m} = 64$														
Mean lightness difference (16 steps) $\Delta E^*_{CIELAB} = 8.4$														
Mean lightness difference (5 steps) $\Delta L^*_{CIELAB} = 6.3$														

OE890-3N-134-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE891-3N-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																
$g_p=0.58$																
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	0.208	0.309	0.392	0.464	0.528	0.587	0.642	0.694	0.743	0.79	0.835	0.878	0.92	0.96	1.0

OE890-7N, Picture A7-134-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^*$ setrgbcolor

OE89: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:5$; Y_N range 3,75 to <7,5

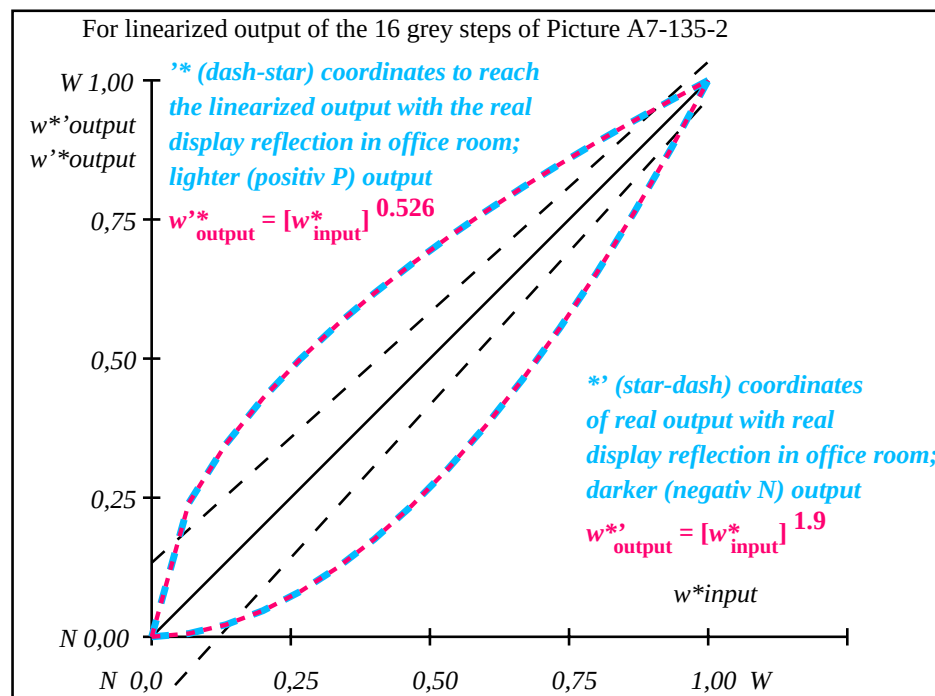
input: $cmy0$ ($\rightarrow cmy0^*_{de}$) setcmyk
output 134-2: $g_p=0.7$; $g_N=1.0$

TUB registration: 20110801-OE89/OE89L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

i	LAB*ref	l*out			LAB*out			LAB*out/c-ref			ΔE*	Start output S1
1	37.99 0.0 0.0	0.0	0.0	37.99	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	41.81 0.0 0.0	0.0	0.24	51.79	0.0	0.0	9.98	0.0	0.0	9.98		
3	45.64 0.0 0.0	0.0	0.35	57.87	0.0	0.0	12.23	0.0	0.0	12.23		
4	49.47 0.0 0.0	0.0	0.43	62.6	0.0	0.0	13.13	0.0	0.0	13.13		
5	53.3 0.0 0.0	0.0	0.5	66.63	0.0	0.0	13.33	0.0	0.0	13.33		
6	57.13 0.0 0.0	0.0	0.56	70.19	0.0	0.0	13.07	0.0	0.0	13.07		
7	60.96 0.0 0.0	0.0	0.62	73.44	0.0	0.0	12.48	0.0	0.0	12.48		
8	64.78 0.0 0.0	0.0	0.67	76.44	0.0	0.0	11.65	0.0	0.0	11.65		
9	68.61 0.0 0.0	0.0	0.72	79.23	0.0	0.0	10.62	0.0	0.0	10.62		
10	72.44 0.0 0.0	0.0	0.76	81.87	0.0	0.0	9.43	0.0	0.0	9.43		
11	76.27 0.0 0.0	0.0	0.81	84.37	0.0	0.0	8.11	0.0	0.0	8.11		
12	80.1 0.0 0.0	0.0	0.85	86.76	0.0	0.0	6.66	0.0	0.0	6.66		
13	83.93 0.0 0.0	0.0	0.89	89.05	0.0	0.0	5.12	0.0	0.0	5.12		
14	87.75 0.0 0.0	0.0	0.93	91.24	0.0	0.0	3.49	0.0	0.0	3.49		
15	91.58 0.0 0.0	0.0	0.96	93.36	0.0	0.0	1.78	0.0	0.0	1.78	Mean lightness difference (16 steps)	
16	95.41 0.0 0.0	0.0	1.0	95.41	0.0	0.0	0.0	0.0	0.0	0.01	ΔE*CIELAB = 8.2	
17	37.99 0.0 0.0	0.0	0.0	37.99	0.0	0.0	0.0	0.0	0.0	0.01		
18	52.34 0.0 0.0	0.0	0.48	65.67	0.0	0.0	13.33	0.0	0.0	13.33		
19	66.7 0.0 0.0	0.0	0.69	77.86	0.0	0.0	11.16	0.0	0.0	11.16		
20	81.05 0.0 0.0	0.0	0.86	87.34	0.0	0.0	6.29	0.0	0.0	6.29	Mean lightness difference (5 steps)	
21	95.41 0.0 0.0	0.0	1.0	95.41	0.0	0.0	0.0	0.0	0.0	0.01	ΔL*CIELAB = 6.2	
Mean colour reproduction index:											R*ab,m = 65	

OE890-3N-135-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE891-3N-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
$w^* w^* w^*$ setrgb $g_p=0.53$																
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
$w^*=l^*_{\text{CIELAB},r}$ (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	0.241	0.346	0.429	0.499	0.561	0.617	0.67	0.718	0.764	0.808	0.849	0.889	0.928	0.964	1.0

OE890-7N, Picture A7-135-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^* \text{setrgbcolor}$

OE89: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:10$; Y_N range 7,5 to <15

input: $\text{cmy0} (-> \text{cmy0}^*_{\text{de}}) \text{setcmyk}$
output 135-2: $g_p=0.62$; $g_N=1.0$

TUB registration: 20110801-OE89/OE89L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

i	LAB*ref	l*out	LAB*out	LAB*out/c-ref	ΔE*
1	52.02 0.0 0.0	0.0 52.02 0.0	0.0 0.0 0.0	0.01	
2	54.91 0.0 0.0	0.27 63.82 0.0	0.0 8.91 0.0	8.91	
3	57.8 0.0 0.0	0.38 68.49 0.0	0.0 10.69 0.0	10.69	
4	60.7 0.0 0.0	0.46 72.03 0.0	0.0 11.34 0.0	11.34	
5	63.59 0.0 0.0	0.53 75.0 0.0	0.0 11.41 0.0	11.41	
6	66.48 0.0 0.0	0.59 77.61 0.0	0.0 11.12 0.0	11.12	
7	69.37 0.0 0.0	0.64 79.95 0.0	0.0 10.57 0.0	10.57	
8	72.27 0.0 0.0	0.69 82.1 0.0	0.0 9.83 0.0	9.83	
9	75.16 0.0 0.0	0.74 84.09 0.0	0.0 8.93 0.0	8.93	
10	78.05 0.0 0.0	0.78 85.96 0.0	0.0 7.91 0.0	7.91	
11	80.95 0.0 0.0	0.82 87.72 0.0	0.0 6.78 0.0	6.78	
12	83.84 0.0 0.0	0.86 89.4 0.0	0.0 5.56 0.0	5.56	
13	86.73 0.0 0.0	0.9 91.0 0.0	0.0 4.26 0.0	4.26	
14	89.62 0.0 0.0	0.93 92.53 0.0	0.0 2.9 0.0	2.9	
15	92.52 0.0 0.0	0.97 93.99 0.0	0.0 1.48 0.0	1.48	
16	95.41 0.0 0.0	1.0 95.41 0.0	0.0 0.0 0.0	0.01	
17	52.02 0.0 0.0	0.0 52.02 0.0	0.0 0.0 0.0	0.01	
18	62.87 0.0 0.0	0.51 74.3 0.0	0.0 11.43 0.0	11.43	
19	73.71 0.0 0.0	0.72 83.11 0.0	0.0 9.4 0.0	9.4	
20	84.56 0.0 0.0	0.87 89.81 0.0	0.0 5.24 0.0	5.24	
21	95.41 0.0 0.0	1.0 95.41 0.0	0.0 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)

ΔE*_{CIELAB} = 7.0

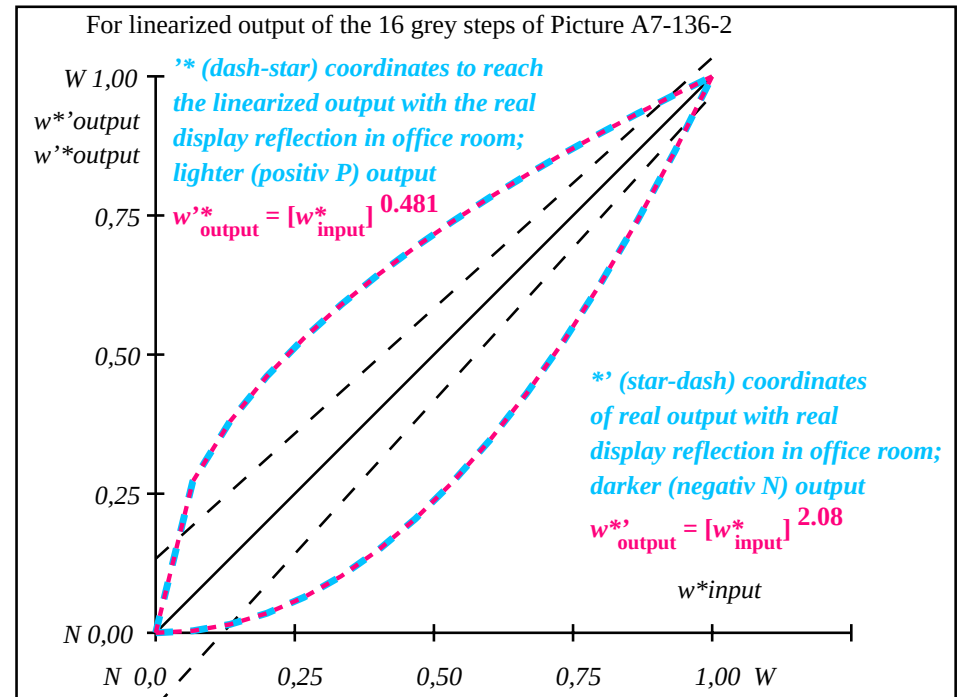
Mean lightness difference (5 steps)

ΔL*_{CIELAB} = 5.2

Mean colour reproduction index:

R*_{ab,m} = 70

OE890-3N-136-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE891-3N-136-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

L^*/Y_{intended} (absolute)	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 $g_p=0.48$ 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
$w^*=l^*_{\text{CIELAB},r}$ (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} w^*_{out}	0.000 0.0	0.067 0.273	0.133 0.379	0.200 0.461	0.267 0.53	0.333 0.589	0.400 0.644	0.467 0.693	0.533 0.739	0.600 0.782	0.667 0.823	0.733 0.861	0.800 0.898	0.867 0.934	0.933 0.967	1.000 1.0

OE890-7N, Picture A7-136-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^* \text{setrgbcolor}$

OE89: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:20$; Y_N range 15 to <30

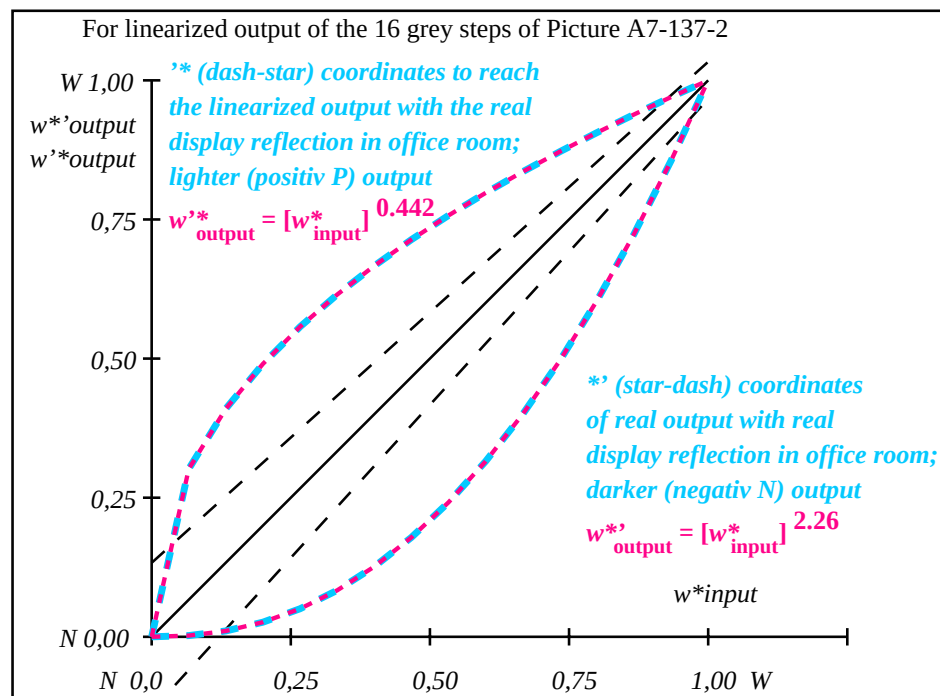
input: $\text{cmy0} (-> \text{cmy0}^*_{\text{de}}) \text{setcmyk}$
output 136-2: $g_p=0.55$; $g_N=1.0$

TUB registration: 20110801-OE89/OE89L0NA.TXT /.PS
TUB material: code=rh4ta
application for output of displays: monitor systems or data projector systems

See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB

i	LAB*ref	L*out	LAB*out	LAB*out/c-ref	ΔE*
1	69.7 0.0 0.0	69.7 0.0 0.0	69.7 0.0 0.0	0.0 0.0 0.0	0.01
2	71.41 0.0 0.0	0.3 77.46 0.0	0.0 0.0 0.0	6.04 0.0 0.0	6.04
3	73.13 0.0 0.0	0.41 80.24 0.0	0.0 0.0 0.0	7.11 0.0 0.0	7.11
4	74.84 0.0 0.0	0.49 82.31 0.0	0.0 0.0 0.0	7.47 0.0 0.0	7.47
5	76.55 0.0 0.0	0.56 84.02 0.0	0.0 0.0 0.0	7.47 0.0 0.0	7.47
6	78.27 0.0 0.0	0.62 85.51 0.0	0.0 0.0 0.0	7.24 0.0 0.0	7.24
7	79.98 0.0 0.0	0.67 86.84 0.0	0.0 0.0 0.0	6.86 0.0 0.0	6.86
8	81.7 0.0 0.0	0.71 88.05 0.0	0.0 0.0 0.0	6.35 0.0 0.0	6.35
9	83.41 0.0 0.0	0.76 89.17 0.0	0.0 0.0 0.0	5.76 0.0 0.0	5.76
10	85.12 0.0 0.0	0.8 90.21 0.0	0.0 0.0 0.0	5.08 0.0 0.0	5.08
11	86.84 0.0 0.0	0.84 91.19 0.0	0.0 0.0 0.0	4.35 0.0 0.0	4.35
12	88.55 0.0 0.0	0.87 92.11 0.0	0.0 0.0 0.0	3.56 0.0 0.0	3.56
13	90.27 0.0 0.0	0.91 92.99 0.0	0.0 0.0 0.0	2.73 0.0 0.0	2.73
14	91.98 0.0 0.0	0.94 93.83 0.0	0.0 0.0 0.0	1.85 0.0 0.0	1.85
15	93.7 0.0 0.0	0.97 94.64 0.0	0.0 0.0 0.0	0.94 0.0 0.0	0.94
16	95.41 0.0 0.0	1.0 95.41 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.01
17	69.7 0.0 0.0	0.0 69.7 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.01
18	76.13 0.0 0.0	0.54 83.62 0.0	0.0 0.0 0.0	7.5 0.0 0.0	7.5
19	82.55 0.0 0.0	0.74 88.62 0.0	0.0 0.0 0.0	6.06 0.0 0.0	6.06
20	88.98 0.0 0.0	0.88 92.34 0.0	0.0 0.0 0.0	3.35 0.0 0.0	3.35
21	95.41 0.0 0.0	1.0 95.41 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.01
Mean lightness difference (16 steps)					$\Delta E^*_{\text{CIELAB}} = 4.6$
Mean lightness difference (5 steps)					$\Delta L^*_{\text{CIELAB}} = 3.4$
Mean colour reproduction index:					$R^*_{ab,m} = 80$

OE890-3N-137-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE891-3N-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 $g_P=0.44$ 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	0.302	0.41	0.491	0.557	0.615	0.667	0.714	0.757	0.798	0.836	0.872	0.906	0.939	0.97	1.0

OE890-7N, Picture A7-137-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^*$ setrgbcolor

OE89: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:40$; Y_N range 30 to <60

input: $cmy0$ ($\rightarrow cmy0^*_{de}$) setcmyk
output 137-2: $g_P=0.47$; $g_N=1.0$

TUB registration: 20110801-OE89/OE89L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rha4ta