

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 |

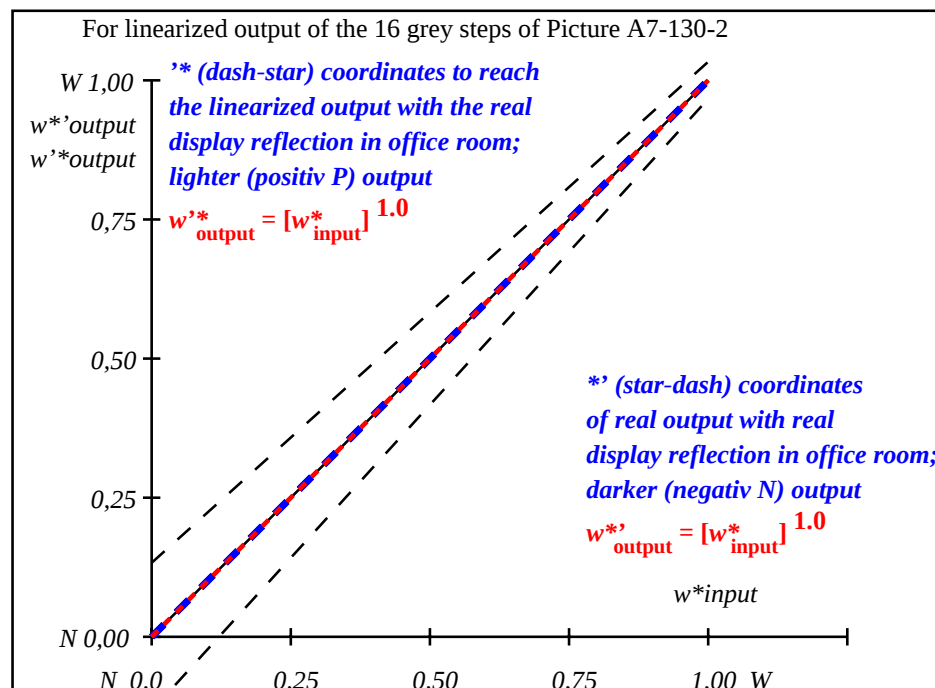
Start output S1  
Specification according to  
ISO/IEC 15775 Annex G  
and DIN 33866-1 Annex G

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:  $R^*_{ab,m} = 100$

OE770-3N-130-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE771-3N-130-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

| $L^*/Y_{\text{intended}}$<br>(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 |
|-------------------------------------------------------------|---------|---------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| $w^* w^* w^*$<br>setrgb<br>$g_P=1.0$<br>No. and<br>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      |
| $w^*=l^*_{\text{CIELAB},r}$<br>(relative)                   |         |         |          |          |          |          |           |           |           |           |           |           |           |           |           |           |
| $w^*_{\text{intended}}$                                     | 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     |
| $w^*_{\text{out}}$                                          | 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       |

OE770-7N, Picture A7-130-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*$  setrgbcolor

OE77: In-output relation according to ISO 9241-306; 1MR, DH  
Viewing Y contrast  $Y_W:Y_N=88,9:0,31$ ;  $Y_N$  range 0,0 to <0,46

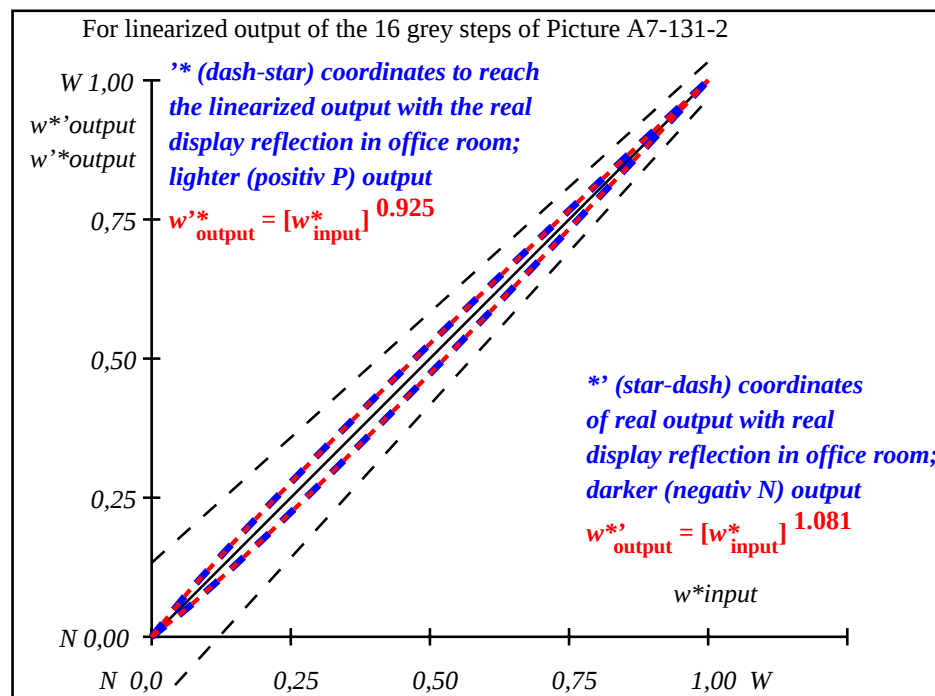
input:  $\text{cmy0} (-> \text{cmy0}^*_d)$  setcmyk  
output 130-2:  $g_P=1.0$ ;  $g_N=1.0$

TUB registration: 20110801-OE77/OE77L0NA.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 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 | 0.08 13.02 0.0 | 0.0 0.0 0.0  | 1.35 0.0 0.0  | 1.35                        |
| 3                                    | 17.65 0.0 0.0 | 0.16 19.6 0.0  | 0.0 0.0 0.0  | 1.95 0.0 0.0  | 1.95                        |
| 4                                    | 23.63 0.0 0.0 | 0.23 25.94 0.0 | 0.0 0.0 0.0  | 2.3 0.0 0.0   | 2.3                         |
| 5                                    | 29.62 0.0 0.0 | 0.29 32.11 0.0 | 0.0 0.0 0.0  | 2.49 0.0 0.0  | 2.49                        |
| 6                                    | 35.6 0.0 0.0  | 0.36 38.17 0.0 | 0.0 0.0 0.0  | 2.57 0.0 0.0  | 2.57                        |
| 7                                    | 41.58 0.0 0.0 | 0.43 44.13 0.0 | 0.0 0.0 0.0  | 2.55 0.0 0.0  | 2.55                        |
| 8                                    | 47.56 0.0 0.0 | 0.49 50.02 0.0 | 0.0 0.0 0.0  | 2.46 0.0 0.0  | 2.46                        |
| 9                                    | 53.54 0.0 0.0 | 0.56 55.85 0.0 | 0.0 0.0 0.0  | 2.31 0.0 0.0  | 2.31                        |
| 10                                   | 59.52 0.0 0.0 | 0.62 61.62 0.0 | 0.0 0.0 0.0  | 2.1 0.0 0.0   | 2.1                         |
| 11                                   | 65.5 0.0 0.0  | 0.69 67.35 0.0 | 0.0 0.0 0.0  | 1.85 0.0 0.0  | 1.85                        |
| 12                                   | 71.48 0.0 0.0 | 0.75 73.03 0.0 | 0.0 0.0 0.0  | 1.55 0.0 0.0  | 1.55                        |
| 13                                   | 77.47 0.0 0.0 | 0.81 78.68 0.0 | 0.0 0.0 0.0  | 1.21 0.0 0.0  | 1.21                        |
| 14                                   | 83.45 0.0 0.0 | 0.88 84.29 0.0 | 0.0 0.0 0.0  | 0.84 0.0 0.0  | 0.84                        |
| 15                                   | 89.43 0.0 0.0 | 0.94 89.86 0.0 | 0.0 0.0 0.0  | 0.43 0.0 0.0  | 0.43                        |
| 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                                   | 5.69 0.0 0.0  | 0.0 5.69 0.0   | 0.0 0.0 0.0  | 0.0 0.0 0.0   | 0.01                        |
| 18                                   | 28.12 0.0 0.0 | 0.28 30.58 0.0 | 0.0 0.0 0.0  | 2.46 0.0 0.0  | 2.46                        |
| 19                                   | 50.55 0.0 0.0 | 0.53 52.94 0.0 | 0.0 0.0 0.0  | 2.39 0.0 0.0  | 2.39                        |
| 20                                   | 72.98 0.0 0.0 | 0.77 74.45 0.0 | 0.0 0.0 0.0  | 1.47 0.0 0.0  | 1.47                        |
| 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* <sub>CIELAB</sub> = 1.6 |
| Mean lightness difference (5 steps)  |               |                |              |               | ΔL* <sub>CIELAB</sub> = 1.3 |
| Mean colour reproduction index:      |               |                |              |               | R* <sub>ab,m</sub> = 93     |

OE770-3N-131-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE771-3N-131-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

| $L^{*}/Y_{intended}$<br>(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 |
|--------------------------------------------------------------------|---------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| $w^{*} w^{*} w^{*}$<br>setrgb<br>$g_P=0.92$<br>No. and<br>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      |
| $w^{*}=l^{*}$<br><sub>CIELAB, r</sub><br>(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     |
| $w^{*}_{intended}$<br>$w^{*}_{out}$                                | 0,000   | 0,082    | 0,155    | 0,226    | 0,295    | 0,362    | 0,428     | 0,494     | 0,559     | 0,623     | 0,688     | 0,75      | 0,814     | 0,876     | 0,938     | 1,0       |

OE770-7N, Picture A7-131-2: 16 visual equidistant  $L^{*}$ -grey steps; PS operator:  $w^{*} w^{*} w^{*}$  setrgbcolor

OE77: In-output relation according to ISO 9241-306; 1MR, DH  
Viewing Y contrast  $Y_W:Y_N=88,9:0,62$ ;  $Y_N$  range 0,46 to <0,93

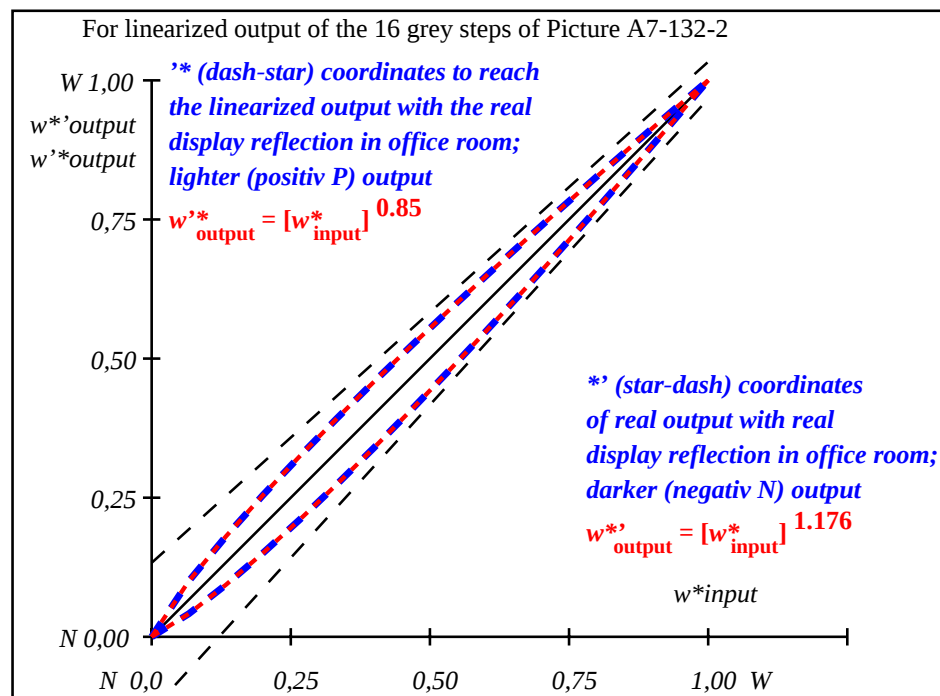
input:  $cmy0$  (-> $cmy0^{*}_d$ ) setcmyk  
output 131-2:  $g_P=0.92$ ;  $g_N=1.0$

TUB registration: 20110801-OE77/OE77L0NA.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 | 0.0 10.99 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01                        |
| 2                                    | 16.62 0.0 0.0 | 0.1 19.44 0.0  | 0.0 0.0 0.0 | 2.82 0.0 0.0  | 2.82                        |
| 3                                    | 22.25 0.0 0.0 | 0.18 26.22 0.0 | 0.0 0.0 0.0 | 3.97 0.0 0.0  | 3.97                        |
| 4                                    | 27.88 0.0 0.0 | 0.25 32.49 0.0 | 0.0 0.0 0.0 | 4.61 0.0 0.0  | 4.61                        |
| 5                                    | 33.5 0.0 0.0  | 0.33 38.44 0.0 | 0.0 0.0 0.0 | 4.94 0.0 0.0  | 4.94                        |
| 6                                    | 39.13 0.0 0.0 | 0.39 44.17 0.0 | 0.0 0.0 0.0 | 5.04 0.0 0.0  | 5.04                        |
| 7                                    | 44.76 0.0 0.0 | 0.46 49.73 0.0 | 0.0 0.0 0.0 | 4.98 0.0 0.0  | 4.98                        |
| 8                                    | 50.39 0.0 0.0 | 0.52 55.16 0.0 | 0.0 0.0 0.0 | 4.77 0.0 0.0  | 4.77                        |
| 9                                    | 56.02 0.0 0.0 | 0.59 60.47 0.0 | 0.0 0.0 0.0 | 4.45 0.0 0.0  | 4.45                        |
| 10                                   | 61.64 0.0 0.0 | 0.65 65.68 0.0 | 0.0 0.0 0.0 | 4.03 0.0 0.0  | 4.03                        |
| 11                                   | 67.27 0.0 0.0 | 0.71 70.8 0.0  | 0.0 0.0 0.0 | 3.53 0.0 0.0  | 3.53                        |
| 12                                   | 72.9 0.0 0.0  | 0.77 75.85 0.0 | 0.0 0.0 0.0 | 2.95 0.0 0.0  | 2.95                        |
| 13                                   | 78.53 0.0 0.0 | 0.83 80.83 0.0 | 0.0 0.0 0.0 | 2.3 0.0 0.0   | 2.3                         |
| 14                                   | 84.15 0.0 0.0 | 0.89 85.74 0.0 | 0.0 0.0 0.0 | 1.59 0.0 0.0  | 1.59                        |
| 15                                   | 89.78 0.0 0.0 | 0.94 90.6 0.0  | 0.0 0.0 0.0 | 0.82 0.0 0.0  | 0.82                        |
| 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                                   | 10.99 0.0 0.0 | 0.0 10.99 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01                        |
| 18                                   | 32.1 0.0 0.0  | 0.31 36.98 0.0 | 0.0 0.0 0.0 | 4.88 0.0 0.0  | 4.88                        |
| 19                                   | 53.2 0.0 0.0  | 0.55 57.83 0.0 | 0.0 0.0 0.0 | 4.62 0.0 0.0  | 4.62                        |
| 20                                   | 74.31 0.0 0.0 | 0.78 77.1 0.0  | 0.0 0.0 0.0 | 2.79 0.0 0.0  | 2.79                        |
| 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* <sub>CIELAB</sub> = 3.2 |
| Mean lightness difference (5 steps)  |               |                |             |               | ΔL* <sub>CIELAB</sub> = 2.5 |
| Mean colour reproduction index:      |               |                |             |               | R* <sub>ab,m</sub> = 86     |

OE770-3N-132-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE771-3N-132-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

| $L^*/Y_{intended}$<br>(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    |
|--------------------------------------------------------------|--------------|--------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--------------|
| $w^* w^* w^*$<br>setrgb<br>$g_P=0.85$<br>No. and<br>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         |
| $w^*=l^*_{CIELAB, r}$<br>(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        |
| $w^*_{intended}$<br>$w^*_{out}$                              | 0.000<br>0.0 | 0.067<br>0.1 | 0.133<br>0.18 | 0.200<br>0.255 | 0.267<br>0.325 | 0.333<br>0.393 | 0.400<br>0.459 | 0.467<br>0.524 | 0.533<br>0.586 | 0.600<br>0.648 | 0.667<br>0.709 | 0.733<br>0.768 | 0.800<br>0.827 | 0.867<br>0.886 | 0.933<br>0.943 | 1.000<br>1.0 |

OE770-7N, Picture A7-132-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*$  setrgbcolor

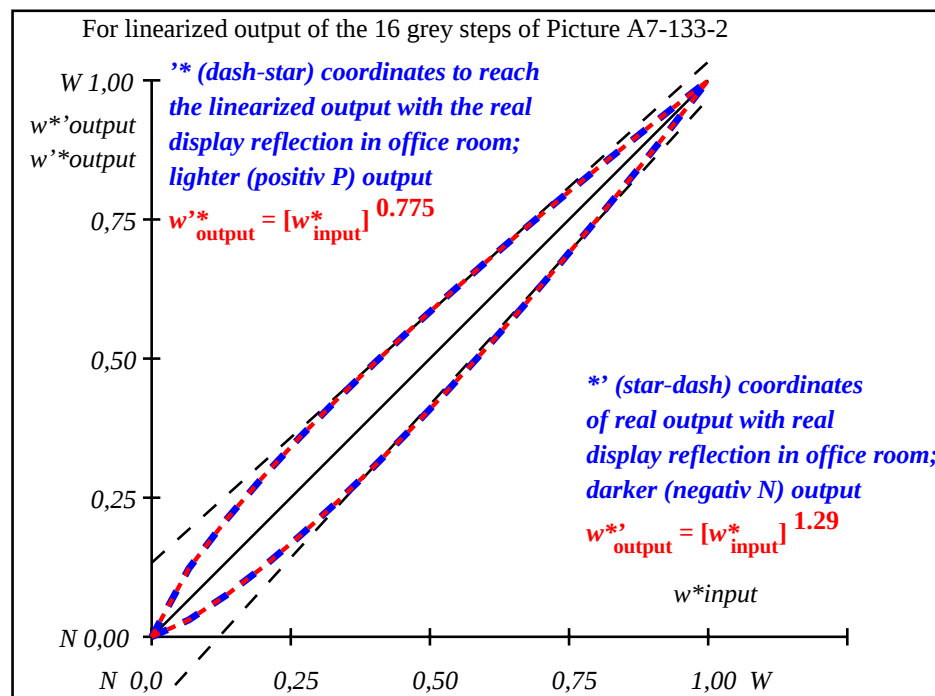
OE77: In-output relation according to ISO 9241-306; 1MR, DH  
Viewing Y contrast  $Y_W:Y_N=88,9:1,25$ ;  $Y_N$  range 0,93 to <1,87

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

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

| Start output S1                 |         |     |     |         |       |     |               |                         |     |      |                                                                                |
|---------------------------------|---------|-----|-----|---------|-------|-----|---------------|-------------------------|-----|------|--------------------------------------------------------------------------------|
| i                               | LAB*ref |     |     | LAB*out |       |     | LAB*out/c-ref |                         |     | ΔE*  | Specification according to<br>ISO/IEC 15775 Annex G<br>and DIN 33866-1 Annex G |
| 1                               | 18.01   | 0.0 | 0.0 | 0.0     | 18.01 | 0.0 | 0.0           | 0.0                     | 0.0 | 0.01 |                                                                                |
| 2                               | 23.17   | 0.0 | 0.0 | 0.12    | 27.5  | 0.0 | 0.0           | 4.33                    | 0.0 | 0.0  | 4.33                                                                           |
| 3                               | 28.33   | 0.0 | 0.0 | 0.21    | 34.25 | 0.0 | 0.0           | 5.92                    | 0.0 | 0.0  | 5.92                                                                           |
| 4                               | 33.49   | 0.0 | 0.0 | 0.29    | 40.24 | 0.0 | 0.0           | 6.76                    | 0.0 | 0.0  | 6.76                                                                           |
| 5                               | 38.65   | 0.0 | 0.0 | 0.36    | 45.8  | 0.0 | 0.0           | 7.15                    | 0.0 | 0.0  | 7.15                                                                           |
| 6                               | 43.81   | 0.0 | 0.0 | 0.43    | 51.04 | 0.0 | 0.0           | 7.23                    | 0.0 | 0.0  | 7.23                                                                           |
| 7                               | 48.97   | 0.0 | 0.0 | 0.49    | 56.06 | 0.0 | 0.0           | 7.09                    | 0.0 | 0.0  | 7.09                                                                           |
| 8                               | 54.13   | 0.0 | 0.0 | 0.55    | 60.89 | 0.0 | 0.0           | 6.76                    | 0.0 | 0.0  | 6.76                                                                           |
| 9                               | 59.29   | 0.0 | 0.0 | 0.61    | 65.56 | 0.0 | 0.0           | 6.27                    | 0.0 | 0.0  | 6.27                                                                           |
| 10                              | 64.45   | 0.0 | 0.0 | 0.67    | 70.11 | 0.0 | 0.0           | 5.66                    | 0.0 | 0.0  | 5.66                                                                           |
| 11                              | 69.61   | 0.0 | 0.0 | 0.73    | 74.54 | 0.0 | 0.0           | 4.93                    | 0.0 | 0.0  | 4.93                                                                           |
| 12                              | 74.77   | 0.0 | 0.0 | 0.79    | 78.87 | 0.0 | 0.0           | 4.1                     | 0.0 | 0.0  | 4.1                                                                            |
| 13                              | 79.93   | 0.0 | 0.0 | 0.84    | 83.12 | 0.0 | 0.0           | 3.19                    | 0.0 | 0.0  | 3.19                                                                           |
| 14                              | 85.09   | 0.0 | 0.0 | 0.9     | 87.28 | 0.0 | 0.0           | 2.19                    | 0.0 | 0.0  | 2.2                                                                            |
| 15                              | 90.25   | 0.0 | 0.0 | 0.95    | 91.38 | 0.0 | 0.0           | 1.13                    | 0.0 | 0.0  | 1.13                                                                           |
| 16                              | 95.41   | 0.0 | 0.0 | 1.0     | 95.41 | 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  | 0.01                                                                           |
| 18                              | 37.36   | 0.0 | 0.0 | 0.34    | 44.44 | 0.0 | 0.0           | 7.08                    | 0.0 | 0.0  | 7.08                                                                           |
| 19                              | 56.71   | 0.0 | 0.0 | 0.58    | 63.24 | 0.0 | 0.0           | 6.53                    | 0.0 | 0.0  | 6.53                                                                           |
| 20                              | 76.06   | 0.0 | 0.0 | 0.8     | 79.94 | 0.0 | 0.0           | 3.88                    | 0.0 | 0.0  | 3.88                                                                           |
| 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* <sub>ab,m</sub> = 80 |     |      |                                                                                |

OE770-3N-133-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE771-3N-133-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

| $L^{*}/Y_{intended}$<br>(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 |
|------------------------------------------------------------------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| $w^{*}w^{*}w^{*}$<br>setrgb<br>$g_P=0.78$<br>No. and<br>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      |
| $w^{*}=l^{*}$<br>$CIELAB, r$<br>(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     |
| $w^{*}_{intended}$<br>$w^{*}_{out}$                              | 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       |

OE770-7N, Picture A7-133-2: 16 visual equidistant  $L^{*}$ -grey steps; PS operator:  $w^{*}w^{*}w^{*}$  setrgbcolor

OE77: In-output relation according to ISO 9241-306; 1MR, DH  
Viewing Y contrast  $Y_W:Y_N=88,9:2,5$ ;  $Y_N$  range 1,87 to <3,75

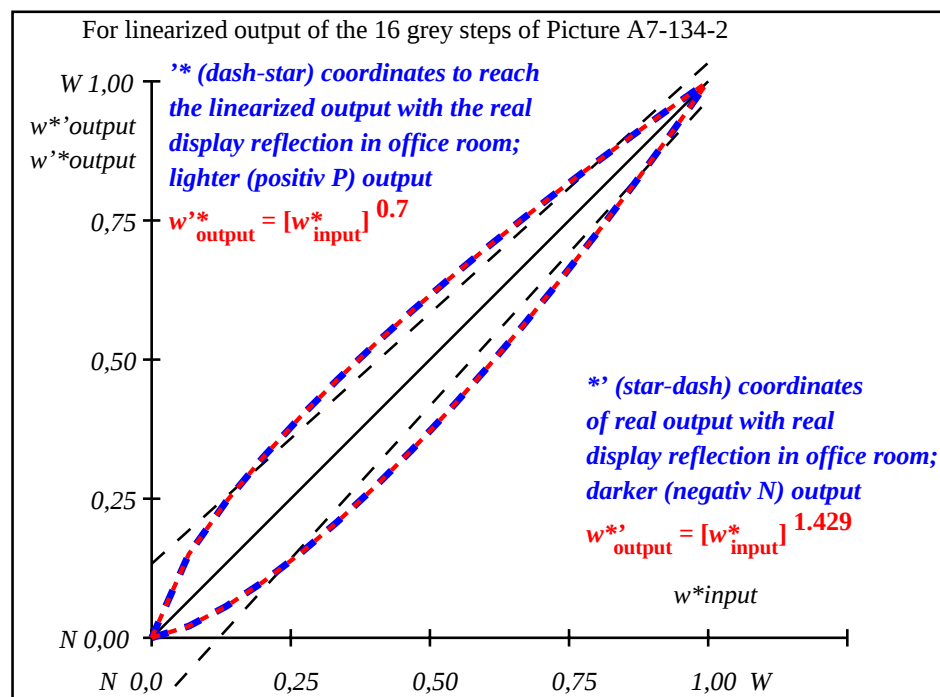
input:  $cmy0$  (-> $cmy0^{*}_d$ ) setcmyk  
output 133-2:  $g_P=0.77$ ;  $g_N=1.0$

TUB registration: 20110801-OE77/OE77L0NA.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                                    | 26.85 0.0 0.0 | 0.0 26.85 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01                        |
| 2                                    | 31.42 0.0 0.0 | 0.15 37.15 0.0 | 0.0 0.0 0.0 | 5.73 0.0 0.0  | 5.73                        |
| 3                                    | 35.99 0.0 0.0 | 0.24 43.58 0.0 | 0.0 0.0 0.0 | 7.59 0.0 0.0  | 7.59                        |
| 4                                    | 40.56 0.0 0.0 | 0.32 49.07 0.0 | 0.0 0.0 0.0 | 8.51 0.0 0.0  | 8.51                        |
| 5                                    | 45.13 0.0 0.0 | 0.4 54.03 0.0  | 0.0 0.0 0.0 | 8.9 0.0 0.0   | 8.9                         |
| 6                                    | 49.7 0.0 0.0  | 0.46 58.62 0.0 | 0.0 0.0 0.0 | 8.92 0.0 0.0  | 8.92                        |
| 7                                    | 54.27 0.0 0.0 | 0.53 62.95 0.0 | 0.0 0.0 0.0 | 8.68 0.0 0.0  | 8.68                        |
| 8                                    | 58.84 0.0 0.0 | 0.59 67.06 0.0 | 0.0 0.0 0.0 | 8.22 0.0 0.0  | 8.22                        |
| 9                                    | 63.41 0.0 0.0 | 0.64 71.0 0.0  | 0.0 0.0 0.0 | 7.59 0.0 0.0  | 7.59                        |
| 10                                   | 67.99 0.0 0.0 | 0.7 74.8 0.0   | 0.0 0.0 0.0 | 6.81 0.0 0.0  | 6.81                        |
| 11                                   | 72.56 0.0 0.0 | 0.75 78.47 0.0 | 0.0 0.0 0.0 | 5.91 0.0 0.0  | 5.91                        |
| 12                                   | 77.13 0.0 0.0 | 0.8 82.03 0.0  | 0.0 0.0 0.0 | 4.9 0.0 0.0   | 4.9                         |
| 13                                   | 81.7 0.0 0.0  | 0.86 85.5 0.0  | 0.0 0.0 0.0 | 3.8 0.0 0.0   | 3.8                         |
| 14                                   | 86.27 0.0 0.0 | 0.9 88.87 0.0  | 0.0 0.0 0.0 | 2.61 0.0 0.0  | 2.61                        |
| 15                                   | 90.84 0.0 0.0 | 0.95 92.18 0.0 | 0.0 0.0 0.0 | 1.34 0.0 0.0  | 1.34                        |
| 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                                   | 26.85 0.0 0.0 | 0.0 26.85 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01                        |
| 18                                   | 43.99 0.0 0.0 | 0.38 52.83 0.0 | 0.0 0.0 0.0 | 8.84 0.0 0.0  | 8.84                        |
| 19                                   | 61.13 0.0 0.0 | 0.62 69.05 0.0 | 0.0 0.0 0.0 | 7.92 0.0 0.0  | 7.92                        |
| 20                                   | 78.27 0.0 0.0 | 0.82 82.9 0.0  | 0.0 0.0 0.0 | 4.64 0.0 0.0  | 4.64                        |
| 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* <sub>CIELAB</sub> = 5.6 |
| Mean lightness difference (5 steps)  |               |                |             |               | ΔL* <sub>CIELAB</sub> = 4.3 |
| Mean colour reproduction index:      |               |                |             |               | R* <sub>ab,m</sub> = 76     |

OE770-3N-134-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE771-3N-134-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

| $L^*/Y_{\text{intended}}$ (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                      |          |          |          |           |           |           |           |           |           |           |           |           |           |           |           |           |
| $g_P=0.7$                                 |          |          |          |           |           |           |           |           |           |           |           |           |           |           |           |           |
| 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      |
| $w^* = l^*_{\text{CIELAB}, r}$ (relative) |          |          |          |           |           |           |           |           |           |           |           |           |           |           |           |           |
| $w^*_{\text{intended}}$                   | 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     |
| $w^*_{\text{out}}$                        | 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       |

OE770-7N, Picture A7-134-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*$  setrgbcolor

OE77: In-output relation according to ISO 9241-306; 1MR, DH  
Viewing Y contrast  $Y_W:Y_N=88,9:5$ ;  $Y_N$  range 3,75 to <7,5

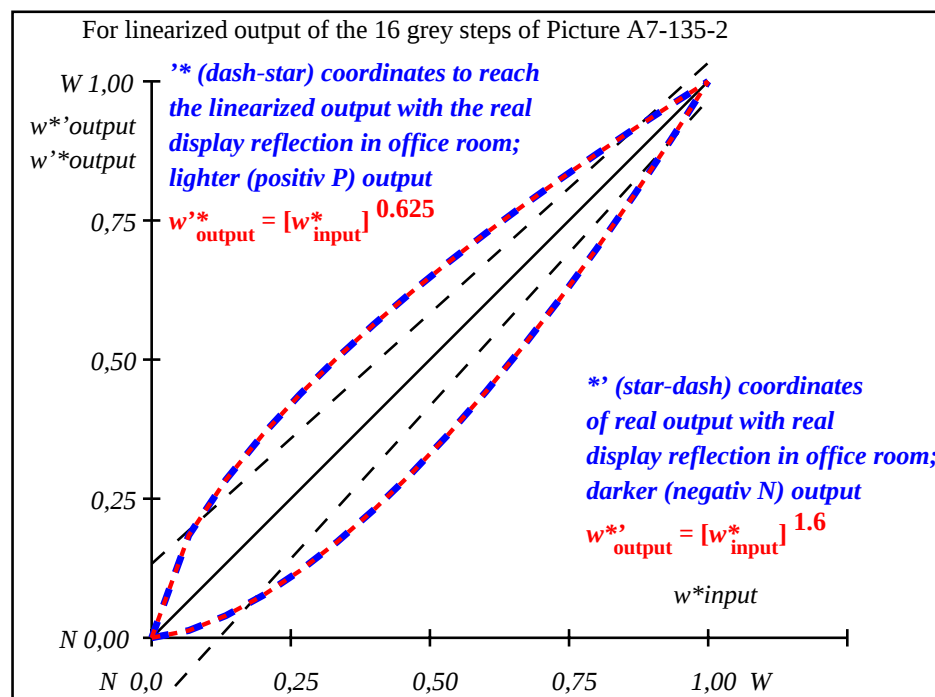
input:  $cmy0$  (-> $cmy0^*_d$ ) setcmyk  
output 134-2:  $g_P=0.7$ ;  $g_N=1.0$

TUB registration: 20110801-OE77/OE77L0NA.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<br>Specification according to<br>ISO/IEC 15775 Annex G<br>and DIN 33866-1 Annex G |
|---------------------------------|---------|-------|-----|------|---------|-----|-----|---------------|-----|-----|-------------------------|---------------------------------------------------------------------------------------------------|
| 1                               | 37.99   | 0.0   | 0.0 | 0.0  | 37.99   | 0.0 | 0.0 | 0.0           | 0.0 | 0.0 | 0.01                    |                                                                                                   |
| 2                               | 41.81   | 0.0   | 0.0 | 0.18 | 48.55   | 0.0 | 0.0 | 6.74          | 0.0 | 0.0 | 6.74                    | Mean lightness difference (16 steps)<br>ΔE* <sub>CIELAB</sub> = 6.1                               |
| 3                               | 45.64   | 0.0   | 0.0 | 0.28 | 54.29   | 0.0 | 0.0 | 8.64          | 0.0 | 0.0 | 8.64                    |                                                                                                   |
| 4                               | 49.47   | 0.0   | 0.0 | 0.37 | 58.99   | 0.0 | 0.0 | 9.52          | 0.0 | 0.0 | 9.52                    |                                                                                                   |
| 5                               | 53.3    | 0.0   | 0.0 | 0.44 | 63.12   | 0.0 | 0.0 | 9.82          | 0.0 | 0.0 | 9.82                    |                                                                                                   |
| 6                               | 57.13   | 0.0   | 0.0 | 0.5  | 66.89   | 0.0 | 0.0 | 9.76          | 0.0 | 0.0 | 9.76                    |                                                                                                   |
| 7                               | 60.96   | 0.0   | 0.0 | 0.56 | 70.37   | 0.0 | 0.0 | 9.42          | 0.0 | 0.0 | 9.42                    |                                                                                                   |
| 8                               | 64.78   | 0.0   | 0.0 | 0.62 | 73.65   | 0.0 | 0.0 | 8.87          | 0.0 | 0.0 | 8.87                    |                                                                                                   |
| 9                               | 68.61   | 0.0   | 0.0 | 0.68 | 76.75   | 0.0 | 0.0 | 8.14          | 0.0 | 0.0 | 8.14                    |                                                                                                   |
| 10                              | 72.44   | 0.0   | 0.0 | 0.73 | 79.71   | 0.0 | 0.0 | 7.27          | 0.0 | 0.0 | 7.27                    |                                                                                                   |
| 11                              | 76.27   | 0.0   | 0.0 | 0.78 | 82.56   | 0.0 | 0.0 | 6.29          | 0.0 | 0.0 | 6.29                    |                                                                                                   |
| 12                              | 80.1    | 0.0   | 0.0 | 0.82 | 85.29   | 0.0 | 0.0 | 5.19          | 0.0 | 0.0 | 5.19                    |                                                                                                   |
| 13                              | 83.93   | 0.0   | 0.0 | 0.87 | 87.93   | 0.0 | 0.0 | 4.01          | 0.0 | 0.0 | 4.01                    |                                                                                                   |
| 14                              | 87.75   | 0.0   | 0.0 | 0.91 | 90.5    | 0.0 | 0.0 | 2.74          | 0.0 | 0.0 | 2.74                    |                                                                                                   |
| 15                              | 91.58   | 0.0   | 0.0 | 0.96 | 92.99   | 0.0 | 0.0 | 1.4           | 0.0 | 0.0 | 1.4                     |                                                                                                   |
| 16                              | 95.41   | 0.0   | 0.0 | 1.0  | 95.41   | 0.0 | 0.0 | 0.0           | 0.0 | 0.0 | 0.01                    |                                                                                                   |
| 17                              | 37.99   | 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 | 0.42 | 62.13   | 0.0 | 0.0 | 9.79          | 0.0 | 0.0 | 9.79                    |                                                                                                   |
| 19                              | 66.7    | 0.0   | 0.0 | 0.65 | 75.22   | 0.0 | 0.0 | 8.52          | 0.0 | 0.0 | 8.52                    |                                                                                                   |
| 20                              | 81.05   | 0.0   | 0.0 | 0.84 | 85.96   | 0.0 | 0.0 | 4.91          | 0.0 | 0.0 | 4.91                    |                                                                                                   |
| 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* <sub>ab,m</sub> = 73 |                                                                                                   |

OE770-3N-135-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE771-3N-135-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

| $L^*/Y_{\text{intended}}$<br>(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    |
|--------------------------------------------------------------|--------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|----------------|----------------|--------------|
| $w^* w^* w^*$<br>setrgb<br>$g_P=0.63$<br>No. and<br>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         |
| $w^* = l^*_{\text{CIELAB}, r}$<br>(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        |
| $w^*_{\text{intended}}$<br>$w^*_{\text{out}}$                | 0.000<br>0.0 | 0.067<br>0.185 | 0.133<br>0.283 | 0.200<br>0.366 | 0.267<br>0.438 | 0.333<br>0.503 | 0.400<br>0.564 | 0.467<br>0.621 | 0.533<br>0.675 | 0.600<br>0.727 | 0.667<br>0.776 | 0.733<br>0.824 | 0.800<br>0.87 | 0.867<br>0.915 | 0.933<br>0.958 | 1.000<br>1.0 |

OE770-7N, Picture A7-135-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*$  setrgbcolor

OE77: In-output relation according to ISO 9241-306; 1MR, DH  
Viewing Y contrast  $Y_W:Y_N=88,9:10$ ;  $Y_N$  range 7,5 to <15

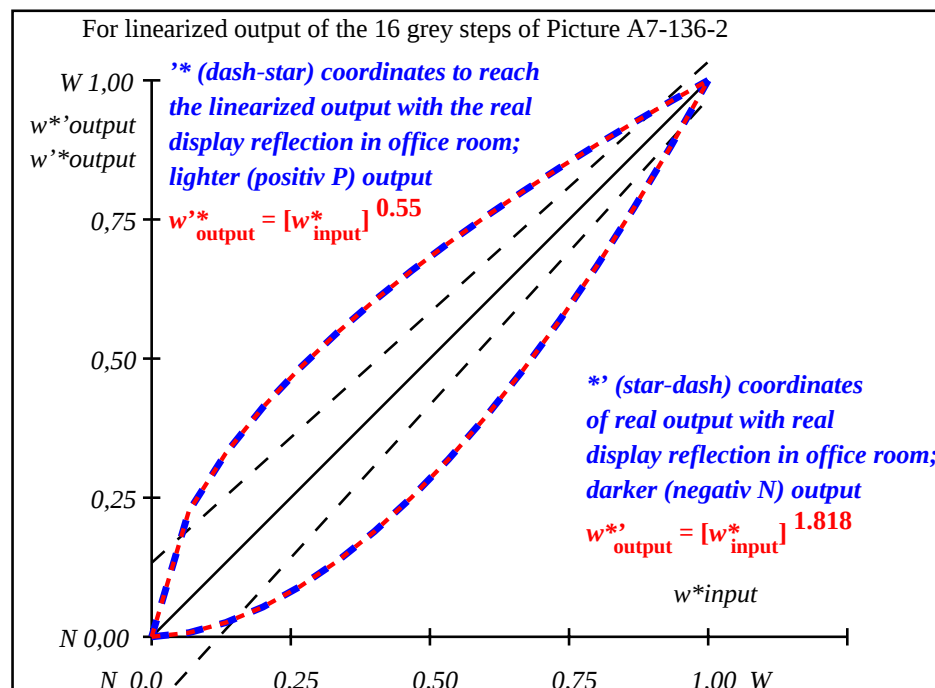
input:  $cmy0$  ( $\rightarrow cmy0^*_d$ ) setcmyk  
output 135-2:  $g_P=0.62$ ;  $g_N=1.0$

TUB registration: 20110801-OE77/OE77L0NA.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 | 0.0 0.0 0.0   | 0.01                        |
| 2                                    | 54.91 0.0 0.0 | 0.23 61.8 0.0  | 0.0 0.0 0.0 | 6.89 0.0 0.0  | 6.89                        |
| 3                                    | 57.8 0.0 0.0  | 0.33 66.34 0.0 | 0.0 0.0 0.0 | 8.54 0.0 0.0  | 8.54                        |
| 4                                    | 60.7 0.0 0.0  | 0.41 69.92 0.0 | 0.0 0.0 0.0 | 9.23 0.0 0.0  | 9.23                        |
| 5                                    | 63.59 0.0 0.0 | 0.48 72.99 0.0 | 0.0 0.0 0.0 | 9.4 0.0 0.0   | 9.4                         |
| 6                                    | 66.48 0.0 0.0 | 0.55 75.73 0.0 | 0.0 0.0 0.0 | 9.25 0.0 0.0  | 9.25                        |
| 7                                    | 69.37 0.0 0.0 | 0.6 78.23 0.0  | 0.0 0.0 0.0 | 8.86 0.0 0.0  | 8.86                        |
| 8                                    | 72.27 0.0 0.0 | 0.66 80.55 0.0 | 0.0 0.0 0.0 | 8.28 0.0 0.0  | 8.28                        |
| 9                                    | 75.16 0.0 0.0 | 0.71 82.73 0.0 | 0.0 0.0 0.0 | 7.57 0.0 0.0  | 7.57                        |
| 10                                   | 78.05 0.0 0.0 | 0.76 84.78 0.0 | 0.0 0.0 0.0 | 6.73 0.0 0.0  | 6.73                        |
| 11                                   | 80.95 0.0 0.0 | 0.8 86.74 0.0  | 0.0 0.0 0.0 | 5.79 0.0 0.0  | 5.79                        |
| 12                                   | 83.84 0.0 0.0 | 0.84 88.6 0.0  | 0.0 0.0 0.0 | 4.77 0.0 0.0  | 4.77                        |
| 13                                   | 86.73 0.0 0.0 | 0.88 90.4 0.0  | 0.0 0.0 0.0 | 3.67 0.0 0.0  | 3.67                        |
| 14                                   | 89.62 0.0 0.0 | 0.92 92.13 0.0 | 0.0 0.0 0.0 | 2.5 0.0 0.0   | 2.5                         |
| 15                                   | 92.52 0.0 0.0 | 0.96 93.79 0.0 | 0.0 0.0 0.0 | 1.28 0.0 0.0  | 1.28                        |
| 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                                   | 52.02 0.0 0.0 | 0.0 52.02 0.0  | 0.0 0.0 0.0 | 0.0 0.0 0.0   | 0.01                        |
| 18                                   | 62.87 0.0 0.0 | 0.47 72.26 0.0 | 0.0 0.0 0.0 | 9.4 0.0 0.0   | 9.4                         |
| 19                                   | 73.71 0.0 0.0 | 0.68 81.66 0.0 | 0.0 0.0 0.0 | 7.94 0.0 0.0  | 7.94                        |
| 20                                   | 84.56 0.0 0.0 | 0.85 89.06 0.0 | 0.0 0.0 0.0 | 4.5 0.0 0.0   | 4.5                         |
| 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* <sub>CIELAB</sub> = 5.8 |
| Mean lightness difference (5 steps)  |               |                |             |               | ΔL* <sub>CIELAB</sub> = 4.4 |
| Mean colour reproduction index:      |               |                |             |               | R* <sub>ab,m</sub> = 75     |

OE770-3N-136-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE771-3N-136-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

| $L^{*}/Y_{intended}$<br>(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 |
|------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| $w^{*}w^{*}w^{*}$<br>setrgb<br>$g_P=0.55$<br>No. and<br>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      |
| $w^{*}=l^{*}$<br><sub>CIELAB, r</sub><br>(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       | 0.226     | 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       |

OE770-7N, Picture A7-136-2: 16 visual equidistant  $L^{*}$ -grey steps; PS operator:  $w^{*}w^{*}w^{*}$  setrgbcolor

OE77: In-output relation according to ISO 9241-306; 1MR, DH  
Viewing Y contrast  $Y_W:Y_N=88,9:20$ ;  $Y_N$  range 15 to <30

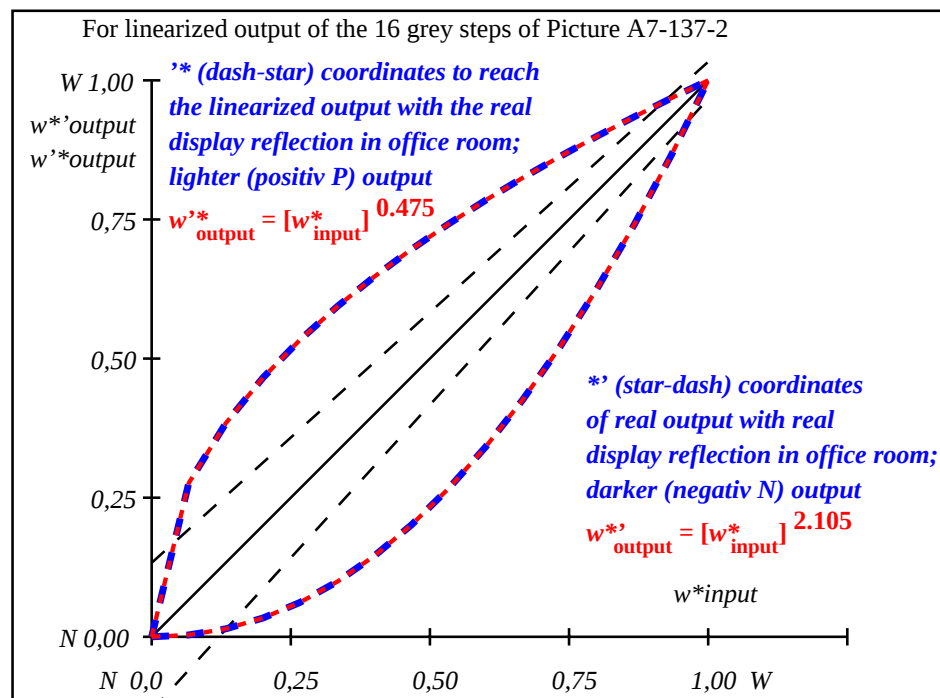
input:  $cmy0$  (-> $cmy0^*_d$ ) setcmyk  
output 136-2:  $g_P=0.55$ ;  $g_N=1.0$

TUB registration: 20110801-OE77/OE77L0NA.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                                    | 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                        |
| 2                                    | 71.41 0.0 0.0 | 0.28 76.8 0.0  | 0.0 0.0 0.0 | 5.39 0.0 0.0  | 5.39                        |
| 3                                    | 73.13 0.0 0.0 | 0.38 79.57 0.0 | 0.0 0.0 0.0 | 6.45 0.0 0.0  | 6.45                        |
| 4                                    | 74.84 0.0 0.0 | 0.47 81.67 0.0 | 0.0 0.0 0.0 | 6.83 0.0 0.0  | 6.83                        |
| 5                                    | 76.55 0.0 0.0 | 0.53 83.42 0.0 | 0.0 0.0 0.0 | 6.87 0.0 0.0  | 6.87                        |
| 6                                    | 78.27 0.0 0.0 | 0.59 84.96 0.0 | 0.0 0.0 0.0 | 6.69 0.0 0.0  | 6.69                        |
| 7                                    | 79.98 0.0 0.0 | 0.65 86.34 0.0 | 0.0 0.0 0.0 | 6.35 0.0 0.0  | 6.35                        |
| 8                                    | 81.7 0.0 0.0  | 0.7 87.6 0.0   | 0.0 0.0 0.0 | 5.9 0.0 0.0   | 5.9                         |
| 9                                    | 83.41 0.0 0.0 | 0.74 88.77 0.0 | 0.0 0.0 0.0 | 5.36 0.0 0.0  | 5.36                        |
| 10                                   | 85.12 0.0 0.0 | 0.78 89.87 0.0 | 0.0 0.0 0.0 | 4.75 0.0 0.0  | 4.75                        |
| 11                                   | 86.84 0.0 0.0 | 0.82 90.91 0.0 | 0.0 0.0 0.0 | 4.07 0.0 0.0  | 4.07                        |
| 12                                   | 88.55 0.0 0.0 | 0.86 91.89 0.0 | 0.0 0.0 0.0 | 3.33 0.0 0.0  | 3.33                        |
| 13                                   | 90.27 0.0 0.0 | 0.9 92.82 0.0  | 0.0 0.0 0.0 | 2.56 0.0 0.0  | 2.56                        |
| 14                                   | 91.98 0.0 0.0 | 0.93 93.72 0.0 | 0.0 0.0 0.0 | 1.74 0.0 0.0  | 1.74                        |
| 15                                   | 93.7 0.0 0.0  | 0.97 94.58 0.0 | 0.0 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 0.0 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 | 0.52 83.01 0.0 | 0.0 0.0 0.0 | 6.88 0.0 0.0  | 6.88                        |
| 19                                   | 82.55 0.0 0.0 | 0.72 88.2 0.0  | 0.0 0.0 0.0 | 5.64 0.0 0.0  | 5.64                        |
| 20                                   | 88.98 0.0 0.0 | 0.87 92.13 0.0 | 0.0 0.0 0.0 | 3.14 0.0 0.0  | 3.14                        |
| 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* <sub>CIELAB</sub> = 4.2 |
| Mean lightness difference (5 steps)  |               |                |             |               | ΔL* <sub>CIELAB</sub> = 3.1 |
| Mean colour reproduction index:      |               |                |             |               | R* <sub>ab,m</sub> = 82     |

OE770-3N-137-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE771-3N-137-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

| $L^*/Y_{intended}$<br>(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 |
|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| $w^*w^*w^*$<br>setrgb               |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |           |
| $g_P=0.48$<br>No. and<br>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      |
| $w^*=l^*_{CIELAB}, r$<br>(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       |

OE770-7N, Picture A7-137-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^*w^*w^*$  setrgbcolor

OE77: In-output relation according to ISO 9241-306; 1MR, DH  
Viewing Y contrast  $Y_W:Y_N=88,9:40$ ;  $Y_N$  range 30 to <60

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