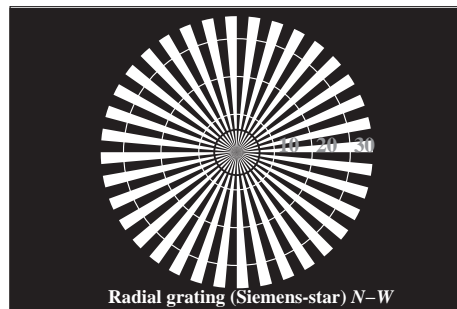
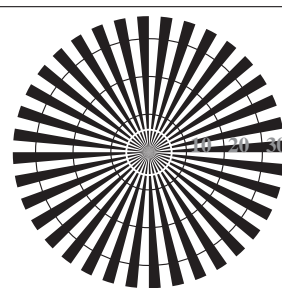


See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1

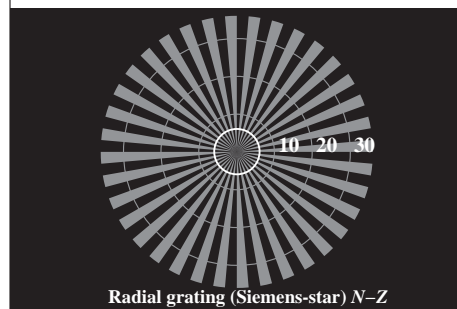
TUB registration: 20110801-OE50/OE50L0NA.TXT /PS TUB material: code=rh4ta
application for output of displays: monitor systems or data projector systems



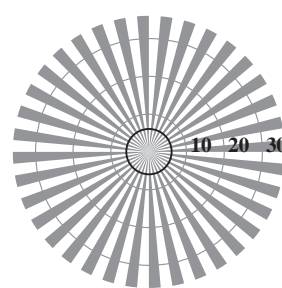
Radial grating (Siemens-star) N-W



Radial grating (Siemens-star) W-N

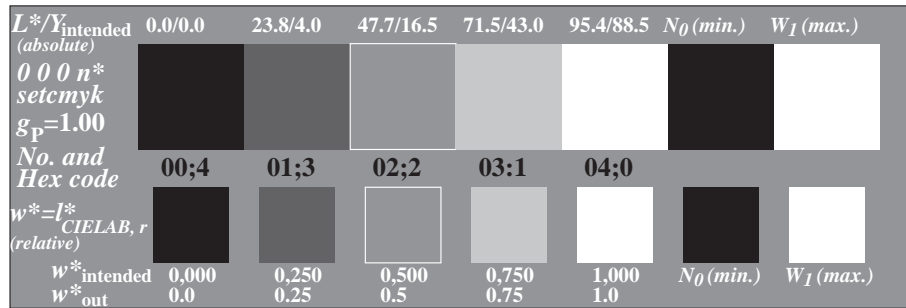


Radial grating (Siemens-star) N-Z

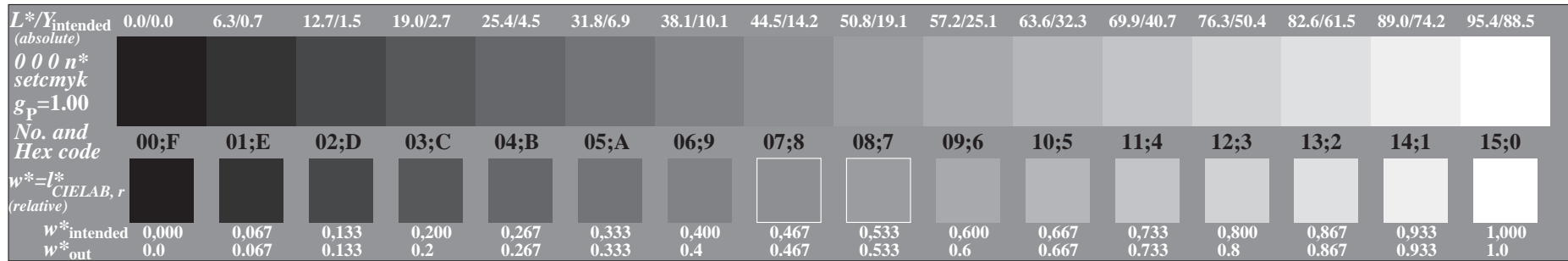


Radial grating (Siemens-star) W-Z

OE500-3N, Picture A1-000-0: Radial grating N-W, W-N, N-Z, W-Z; PS operator: 0 0 0 n* setcmkcolor



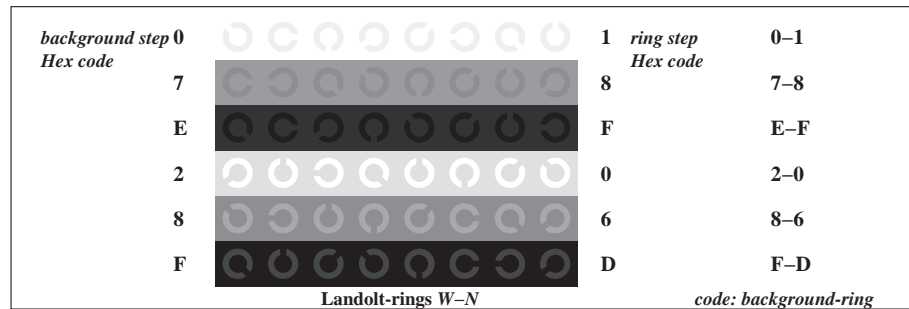
OE500-5N, Picture A2-000-0: 5 equidistant L^* -grey steps+N0+W1; PS operator: 0 0 0 n* setcmkcolor



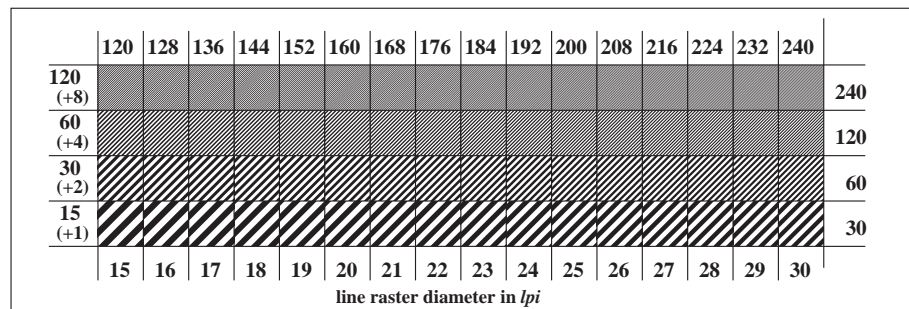
OE500-7N, Picture A3-000-0: 16 visual equidistant L^* -grey steps; PS operator: 0 0 0 n* setcmkcolor

OE50: similar ME16 according to ISO 9241-306; DH
Viewing Y contrast $Y_W:Y_N=88,9:0,31$; Y_N range 0,0 to <0,46

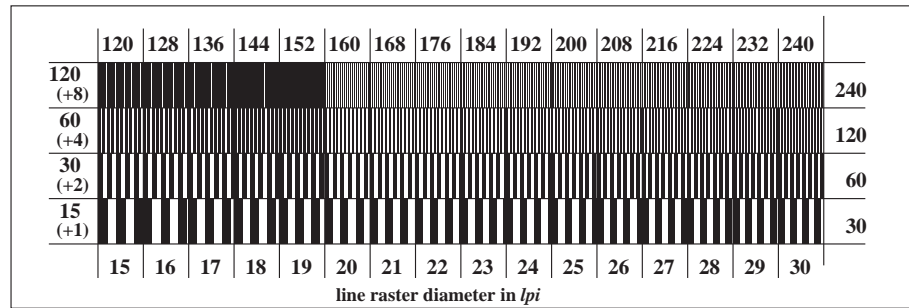
input: 000n (->rgb*d) setcmk
output 000-0: no change



OE501-1N, Picture A4-000-0: Landolt-rings W-N; PS operator: 0 0 0 n* setcmkcolor



OE501-3N, Picture A5-000-0: Line raster under 45° (or 135°); PS operator: 0 0 0 n* setcmkcolor



OE501-5N, Picture A6-000-0: Line raster under 90° (or 0°); PS operator: 0 0 0 n* setcmkcolor

| Test for the best visual linearized output of Picture A7-000-0 | | Yes/No |
|--|--|-------------|
| Output test with the computer display () or the external display () | | |
| Test of the radial grating according to picture A1-000-0 | | |
| N-W-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) resolution diameter | mm |
| W-N-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) resolution diameter | mm |
| N-Z-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) resolution diameter | mm |
| W-Z-radial grating: | Is the resolution diameter < 6 mm? | Yes/No |
| | Test with magnifying glass (e.g. 6x) resolution diameter | mm |
| Test of 5 visual equidistant L*-grey steps according to picture A2-000-0 | | |
| Are the 5 steps on the upper rows distinguishable? | | Yes/No |
| If No: How many steps can be distinguished? | | Steps |
| Test of 16 visual equidistant L*-grey steps according to picture A3-000-0 | | |
| Are the 16 steps on the upper rows distinguishable? | | Yes/No |
| If No: How many steps can be distinguished? | | Steps |

Part 1 OE500-3N-000-1

Documentation of file format, hardware and software for this test:

PDF-File: <http://130.149.60.45/farbmetrik/OE50/OE50L0NP.PDF> Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE50/OE50L0NA.PS> Yes/No

Used computer operating system:
either one of Windows/Mac/Unix/other and version:.....

This evaluation is for the device output: monitor/data projector/printer
Device model, driver and version:.....

Device output with PDF/PS-file: PDF/PS-file

For device output with PDF-file OE50L0NP.PDF:
either PDF-file transfer "download, copy" to PDF device.....
or with computer system interpretation by "Display-PDF":.....
or with software, e. g. Adobe-Reader/-Acrobat and version:.....
or with software e. g. Ghostscript and version:.....

For device output with PS-file OE50L0NA.PS:
either PS-file transfer "download, copy" to PS device.....
or with computer system interpretation by "Display-PS":.....
or with software e. g. Ghostscript and version:.....
or with software e. g. Mac-Yap and version:.....

Special remarks:Special remarks, e. g. output of Landscape (L)
.....
.....
.....

Part 3 OE500-7N-000-1

OE50: Form A for test chart according to ISO 9241-306; DH
Viewing Y contrast $Y_W:Y_N=88,9:0,31$; Y_N range 0,0 to <0,46

| Test for the best visual linearized output of Picture A7-000-0 | | Yes/No |
|--|-------------------|--------------|
| Output test with the computer display () or the external display () | | |
| Test of the Landolt-rings N-W according to picture A4-000-0 | | |
| N-W-radial grating: | | |
| Is the recognition frequency of the Landolt-rings > 50% (5 of 8 at least)? | | |
| | background - ring | Yes/No |
| | 0 - 1 | Yes/No |
| | 7 - 8 | Yes/No |
| | E - F | Yes/No |
| | 2 - 0 | Yes/No |
| | 8 - 6 | Yes/No |
| | F - D | Yes/No |
| Test of the radial grating under 45° according to picture A5-000-0 | | |
| Can equally spaced lines be seen? | | |
| Visual testing: for radial diameter from 15 to 60 lpi | | Yes/No |
| Test with a magnifying glass (e.g. 6x): - from 15 lpi: | | to lpi |
| Test of the radial grating under 90° according to picture A6-000-0 | | |
| Can equally spaced lines be seen? | | |
| Visual testing: for radial diameter from 15 to 60 lpi | | Yes/No |
| Test with a magnifying glass (e.g. 6x): - from 15 lpi: | | to lpi |

Part 2 OE501-3N-000-1

Documentation of assessor colour vision properties for visual assessment

The assessor has **normal** colour vision according to one test:
either according to DIN 6160:1996 with Anomaloskop of Nagel
or with test charts using colour points according to Ishihara
or tested with, please specify:

Yes/No
Yes/unknown
Yes/unknown
Yes/unknown

For visual evaluation of the display (monitor, data projector) output

Office workplace illumination is daylight (clouded/north sky) Yes/No

PDF file: <http://130.149.60.45/farbmetrik/OE50/OE50F1P2.PDF> Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE50/OE50F1P2.PS> Yes/No

Picture A7-000-2: contrast range: (>F:0) (F:0) (E:0) (D:0) (C:0) (A:0) (9:0) (7:0) (5:0) (3:0) (<3:0)
compare standard print output according to ISO/IEC 15775 with range F:0 range

*Remark: In daylighted offices the contrast range is in many cases:
on display between: >F:0 and E:0 (monitor), D:0 and 3:0 (data projector)*

Only for optional colorimetric specification with PDF/PS file output

PDF-File: <http://130.149.60.45/farbmetrik/OE50/OE50F1P2.PDF> Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE50/OE50F1P2.PS> Yes/No

colour measurement and specification for:
CIE standard illuminant D65, 2 degree observer, CIE 45/0 geometry: Yes/No
If No, please give other parameters:

Colorimetric specification with PS file for colours in the columns A to T
Exchange of CIELAB data in file www.ps.bam.de/De17/10L/L17e00NP.PS and transfer
of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF Yes/No
If No, please describe other method:

Part 4

input: 000n (->rgb*d) setcmyk
output 000-1: no change

OE501-7N-000-1

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

| 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 |

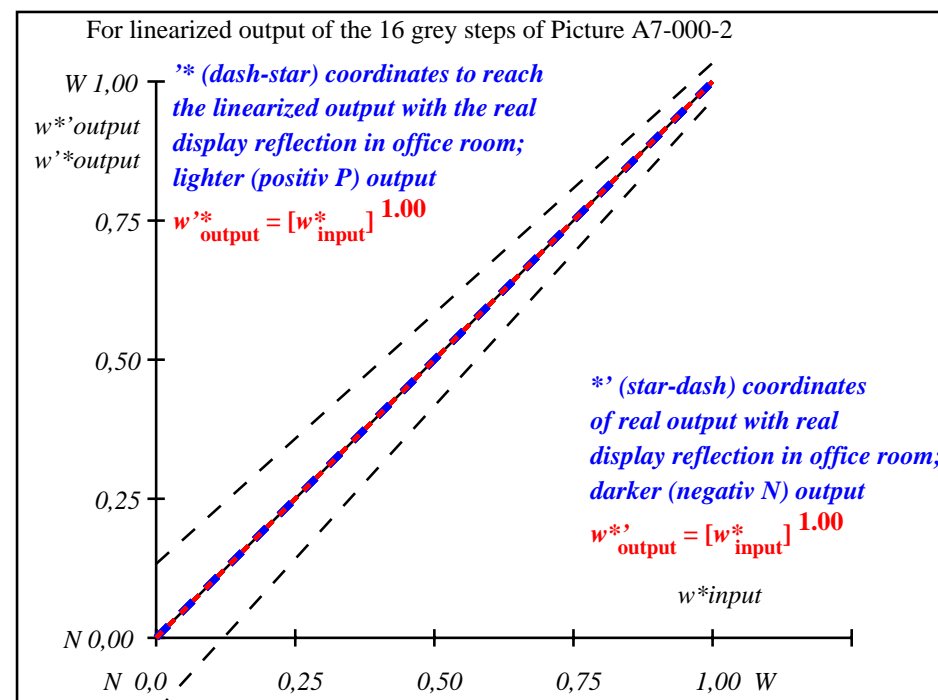
Start output S1
Specification according to
ISO/IEC 15775 Annex G
and DIN 33866-1 Annex G

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

OE500-3N-000-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE501-3N-000-2: 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 |
|---|---------|---------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 0 0 n* setcmyk gp=1.00 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 |
| $w^* = [L^*]^{1/3}$ (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 |

OE500-7N, Picture A7-000-2: 16 visual equidistant L^* -grey steps; PS operator: 0 0 0 n* setcmykcolor

OE50: In-output relation according to ISO 9241-306; DH
Viewing Y contrast $Y_W:Y_N=88,9:0,31$; Y_N range 0,0 to <0,46

input: 000n (->rgb*d) setcmyk
output 000-2: no change