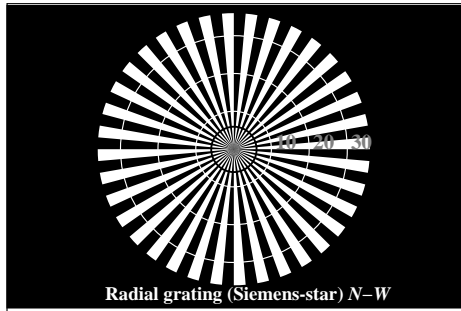
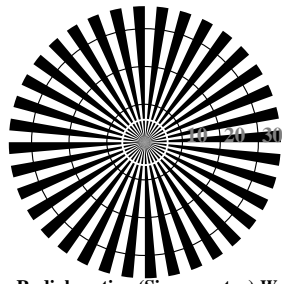


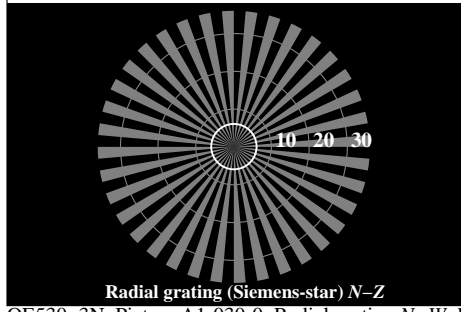
See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>  
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1



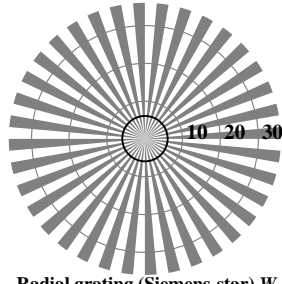
Radial grating (Siemens-star) N-W



Radial grating (Siemens-star) W-N

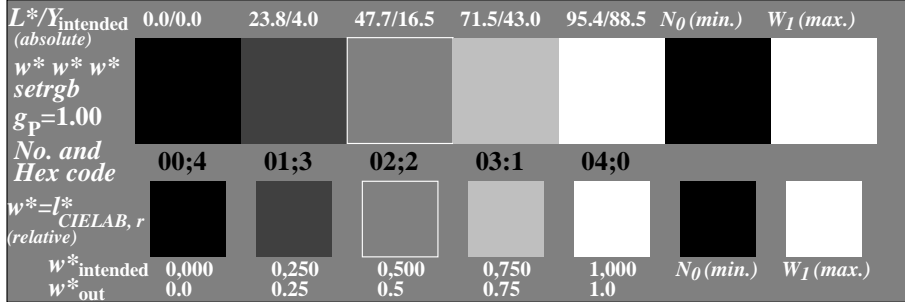


Radial grating (Siemens-star) N-Z

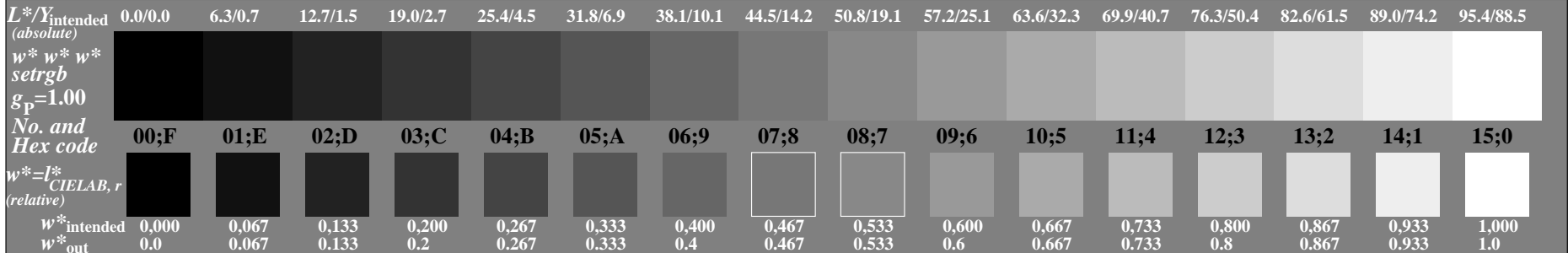


Radial grating (Siemens-star) W-Z

OE530-3N, Picture A1-030-0: Radial grating N-W, W-N, N-Z, W-Z; PS operator:  $w^* w^* w^* setrgbcolor$



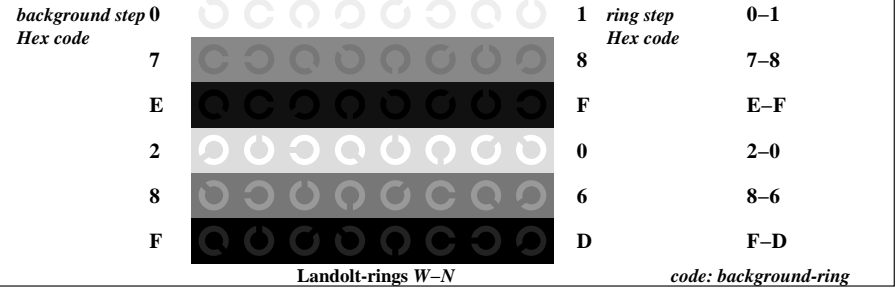
OE530-5N, Picture A2-030-0: 5 equidistant  $L^*$ -grey steps+N0+W1; PS operator:  $w^* w^* w^* setrgbcolor$



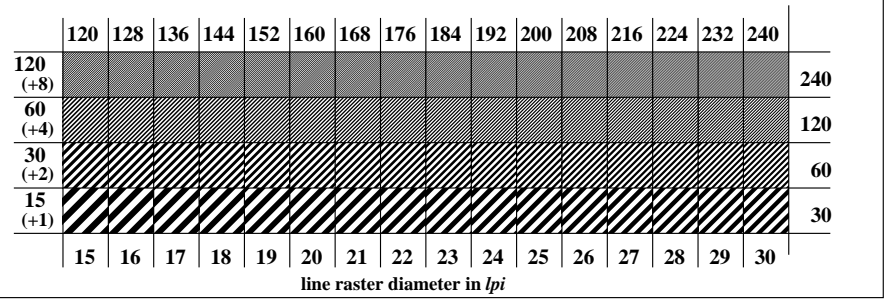
OE530-7N, Picture A3-030-0: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^* setrgbcolor$

OE53: 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

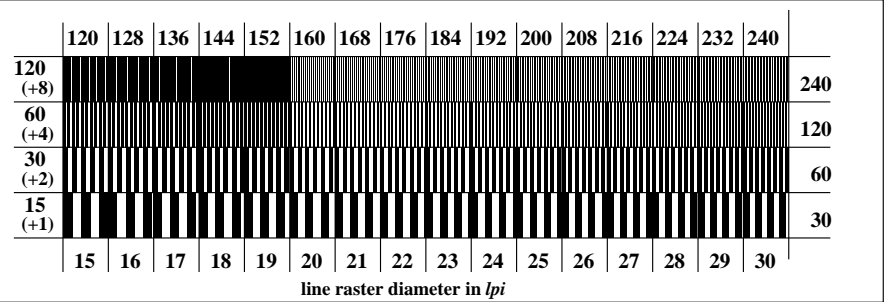
input:  $rgb (->rgb^*_d) setrgbcolor$   
output 030-0: no change



OE531-1N, Picture A4-030-0: Landolt-rings W-N; PS operator:  $w^* w^* w^* setrgbcolor$



OE531-3N, Picture A5-030-0: Line raster under 45° (or 135°); PS operator:  $w^* w^* w^* setrgbcolor$



OE531-5N, Picture A6-030-0: Line raster under 90° (or 0°); PS operator:  $w^* w^* w^* setrgbcolor$

TUB registration: 20110801-OE53/OE53L0NP.PDF /.PS TUB material: code=rh4ta  
application for output of displays: monitor systems or data projector systems

**Test for the best visual linearized output of Picture A7-030-0** Yes/No  
**Output test with the computer display ( ) or the external display ( )**

**Test of the radial grating according to picture A1-030-0**  
 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 A2-030-0**  
 Are the 5 steps on the upper rows distinguishable? Yes/No  
 If No: How many steps can be distinguished? of the given 5 steps: .... Steps

**Test of 16 visual equidistant L\*-grey steps according to picture A3-030-0**  
 Are the 16 steps on the upper rows distinguishable? Yes/No  
 If No: How many steps can be distinguished? of the given 16 steps: .... Steps

Part 1 OE530-3N-030-1

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

**PDF-File:** <http://130.149.60.45/farbmetrik/OE53/OE53L0NP.PDF> underline Yes/No

**PS-File:** <http://130.149.60.45/farbmetrik/OE53/OE53L0NA.PS> or underline Yes/No

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

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

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

**For device output with PDF-file OE53L0NP.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 OE53L0NA.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 OE530-7N-030-1

**Test for the best visual linearized output of Picture A7-030-0** Yes/No  
**Output test with the computer display ( ) or the external display ( )**

**Test of the Landolt-rings N-W according to picture A4-030-0**  
 N-W-radial grating:  
 Is the recognition frequency of the Landolt-rings > 50% (5 of 8 at least)?  
 background - ring  
 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 A5-030-0**  
 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 A6-030-0**  
 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 OE531-3N-030-1

**Documentation of assessor colour vision properties for visual assessment**  
 The assessor has **normal** colour vision according to one test: underline Yes/No  
 either according to DIN 6160:1996 with Anomaloskop of Nagel underline Yes/unknown  
 or with test charts using colour points according to Ishihara underline Yes/unknown  
 or tested with, please specify: ..... underline Yes/unknown

**For visual evaluation of the display (monitor, data projector) output**  
 Office workplace illumination is daylight (clouded/north sky) underline Yes/No  
**PDF file:** <http://130.149.60.45/farbmetrik/OE53/OE53F1P2.PDF> underline Yes/No  
**PS file:** <http://130.149.60.45/farbmetrik/OE53/OE53F1P2.PS> underline Yes/No  
**Picture A7-030-2: 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 underline 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/OE53/OE53F1P2.PDF> underline Yes/No  
**PS-File:** <http://130.149.60.45/farbmetrik/OE53/OE53F1P2.PS> or underline Yes/No  
**picture A7-030-2** underline Yes/No  
**picture A7-030-2** or underline Yes/No

**colour measurement and specification for:**  
 CIE standard illuminant D65, 2 degree observer, CIE 45/0 geometry: underline 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](http://www.ps.bam.de/De17/10L/L17e00NP.PS) and transfer  
 of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF underline Yes/No  
 If No, please describe other method: .....

Part 4 OE531-7N-030-1

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

TUB registration: 20110801-OE53/OE53L0NP.PDF /.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

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

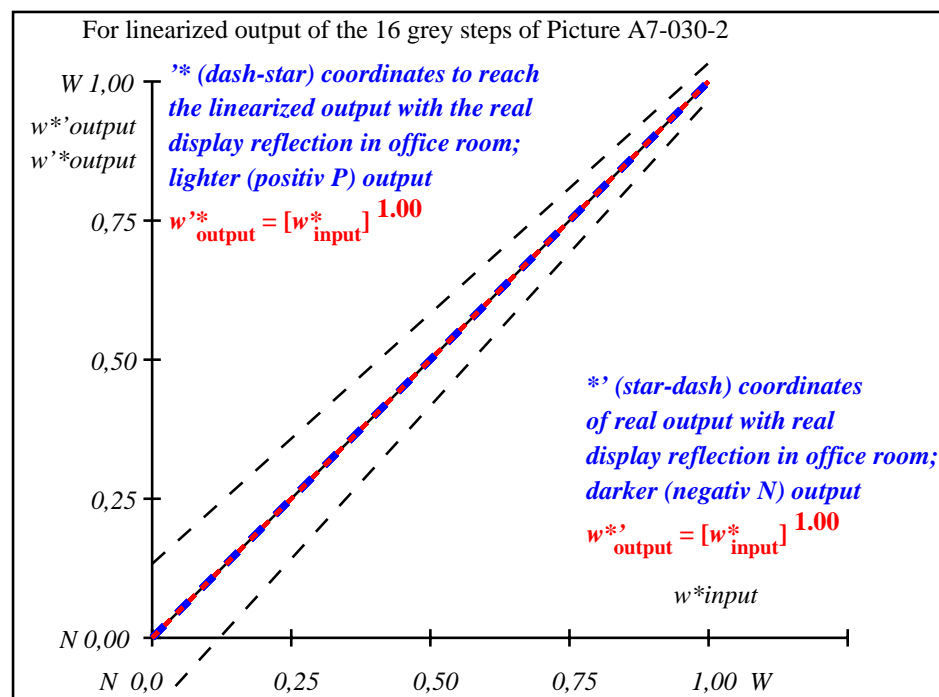
**Start output S1**  
**Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G**

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

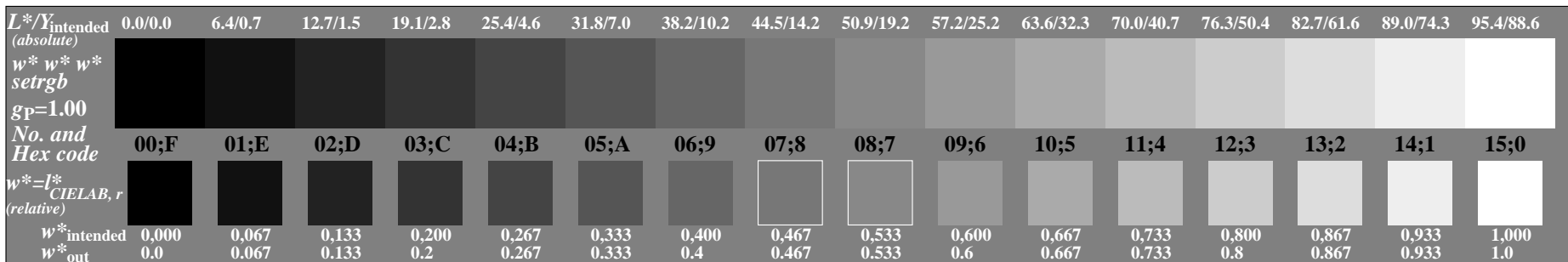
Mean lightness difference (5 steps)  $\Delta L^*_{CIELAB} = 0.0$

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

OE530-3N-030-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE531-3N-030-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE530-7N, Picture A7-030-2: 16 visual equidistant  $L^*$ -grey steps; PS operator:  $w^* w^* w^*_{setrgbcolor}$

OE53: 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:  $rgb (->rgb^*_d)$   $setrgbcolor$   
 output 030-2: no change

TUB registration: 20110801-OE53/OE53L0NP.PDF /.PS  
 application for output of displays: monitor systems or data projector systems  
 TUB material: code=rh4ta