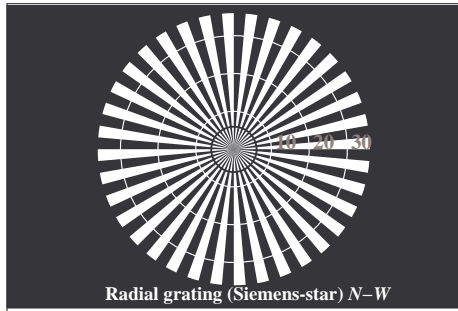
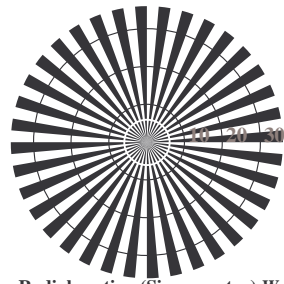


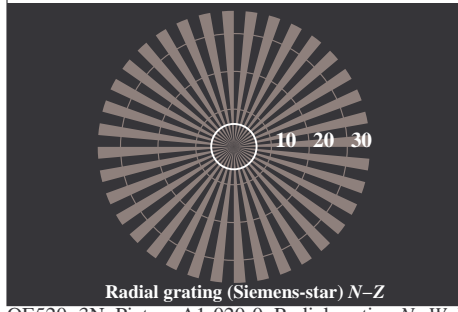
See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1



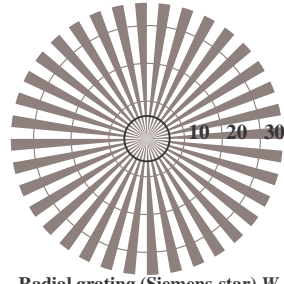
Radial grating (Siemens-star) N-W



Radial grating (Siemens-star) W-N

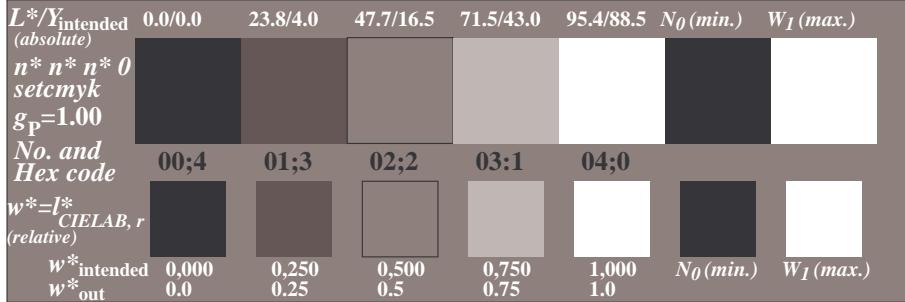


Radial grating (Siemens-star) N-Z

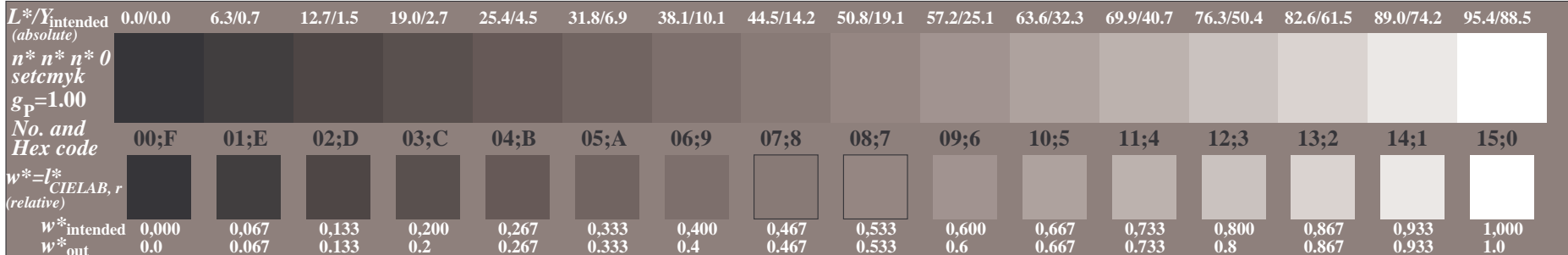


Radial grating (Siemens-star) W-Z

OE520-3N, Picture A1-020-0: Radial grating N-W, W-N, N-Z, W-Z; PS operator: $n^* n^* n^* 0$ setcmykcolor



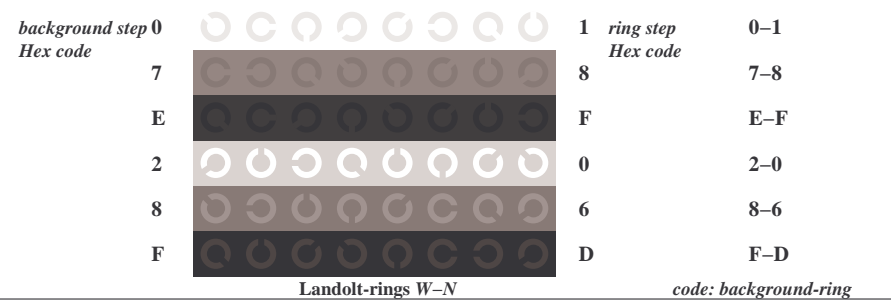
OE520-5N, Picture A2-020-0: 5 equidistant L^* -grey steps+N0+W1; PS operator: $n^* n^* n^* 0$ setcmykcolor



OE520-7N, Picture A3-020-0: 16 visual equidistant L^* -grey steps; PS operator: $n^* n^* n^* 0$ setcmykcolor

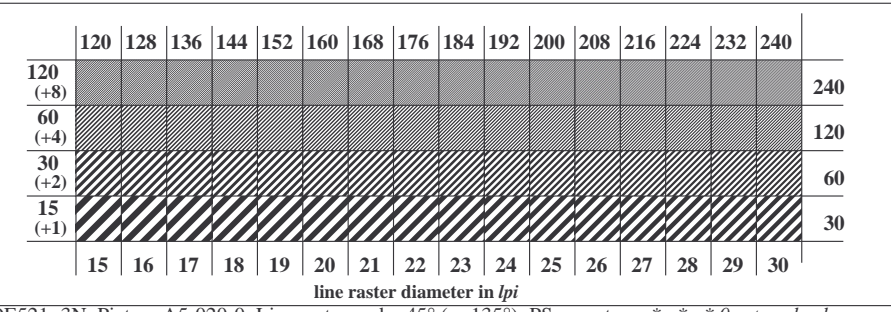
OE52: similar ME16 according to ISO 9241-306; DH
Viewing Y contrast $Y_W:Y_N=88,9:0,31$; Y_N range 0,0 to <0,46

input: $cmy0$ ($\rightarrow rgb^*_d$) setcmyk
output 020-0: no change



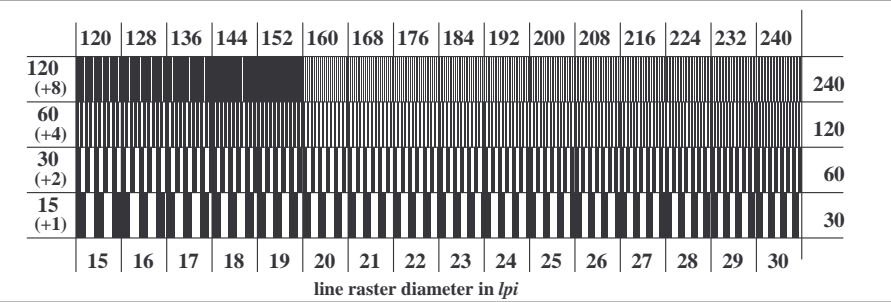
Landolt-rings W-N code: background-ring

OE521-1N, Picture A4-020-0: Landolt-rings W-N; PS operator: $n^* n^* n^* 0$ setcmykcolor



line raster diameter in lpi

OE521-3N, Picture A5-020-0: Line raster under 45° (or 135°); PS operator: $n^* n^* n^* 0$ setcmykcolor



line raster diameter in lpi

OE521-5N, Picture A6-020-0: Line raster under 90° (or 0°); PS operator: $n^* n^* n^* 0$ setcmykcolor

TUB registration: 20110801-OE52/OE52L0NP.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 A7-020-0 Yes/No
Output test with the computer display () or the external display ()

Test of the radial grating according to picture A1-020-0
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 A2-020-0
 Are the 5 steps on the upper rows distinguishable? Yes/No
 If No: How many steps can be distinguished? Steps
 of the given 5 steps: Steps

Test of 16 visual equidistant L*-grey steps according to picture A3-020-0
 Are the 16 steps on the upper rows distinguishable? Yes/No
 If No: How many steps can be distinguished? Steps
 of the given 16 steps: Steps

Part 1 OE520-3N-020-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE52/OE52L0NP.PDF> **underline Yes/No**

PS-File: <http://130.149.60.45/farbmetrik/OE52/OE52L0NA.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 OE52L0NP.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 OE52L0NA.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 OE520-7N-020-1

Test for the best visual linearized output of Picture A7-020-0 Yes/No
Output test with the computer display () or the external display ()

Test of the Landolt-rings N-W according to picture A4-020-0
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 A5-020-0
 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 A6-020-0
 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 OE521-3N-020-1

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/OE52/OE52F1P2.PDF> **underline Yes/No**
PS file: <http://130.149.60.45/farbmetrik/OE52/OE52F1P2.PS> **underline Yes/No**
Picture A7-020-2: 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/OE52/OE52F1P2.PDF> **underline Yes/No**
PS-File: <http://130.149.60.45/farbmetrik/OE52/OE52F1P2.PS> **or underline Yes/No**
picture A7-020-2 **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 and transfer
 of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF **underline Yes/No**
 If No, please describe other method:

Part 4 OE521-7N-020-1

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-OE52/OE52L0NP.PDF /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4t4

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	0.0
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	0.01
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

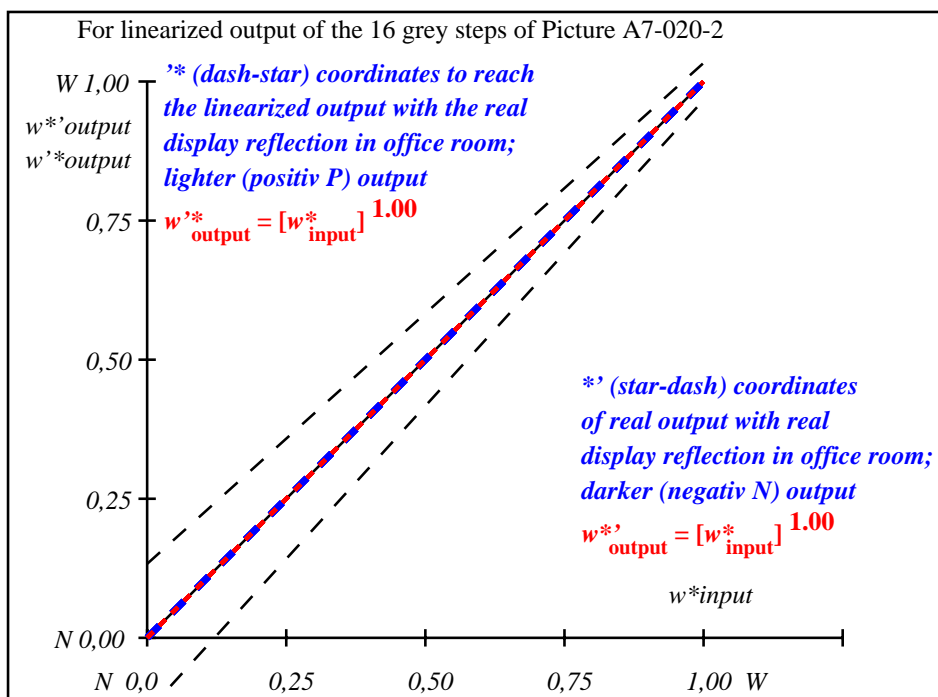
Start output S1
Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G

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

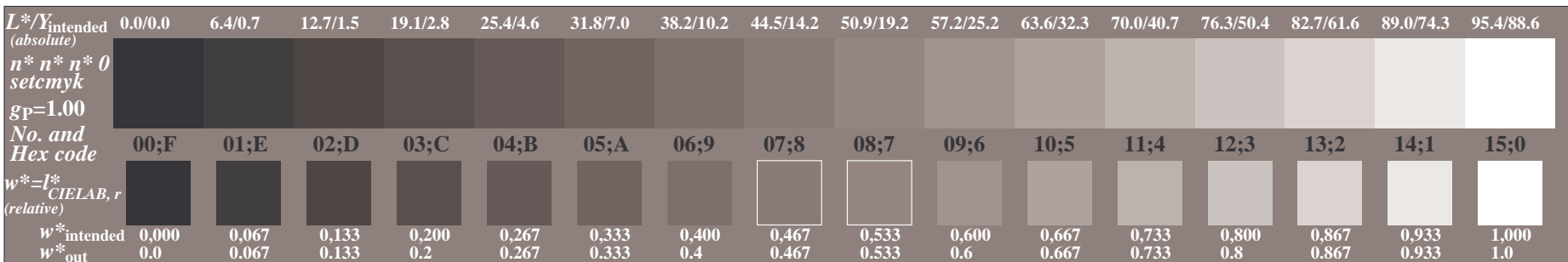
Mean lightness difference (5 steps)
 $\Delta L^*_{CIELAB} = 0.0$

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

OE520-3N-020-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE521-3N-020-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE520-7N, Picture A7-020-2: 16 visual equidistant L^* -grey steps; PS operator: $n^* n^* n^* 0$ setcmykcolor

OE52: 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: cmy0 (->rgb*_d) setcmyk
 output 020-2: no change

TUB registration: 20110801-OE52/OE52L0NP.PDF /.PS
 application for output of displays: monitor systems or data projector systems
 TUB material: code=rh4ta