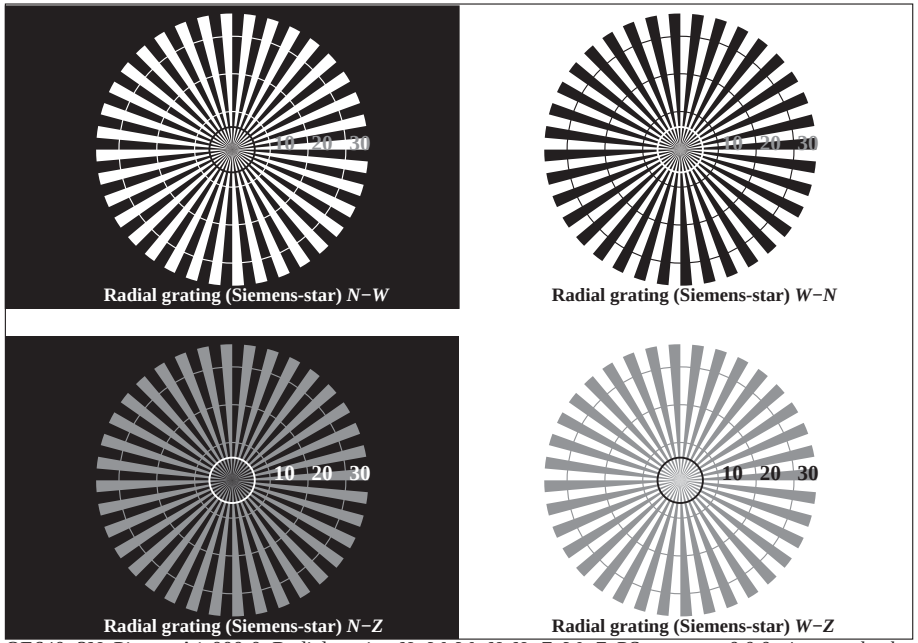
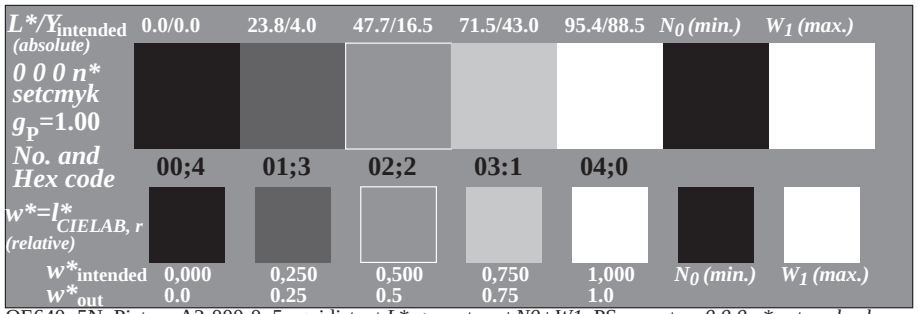
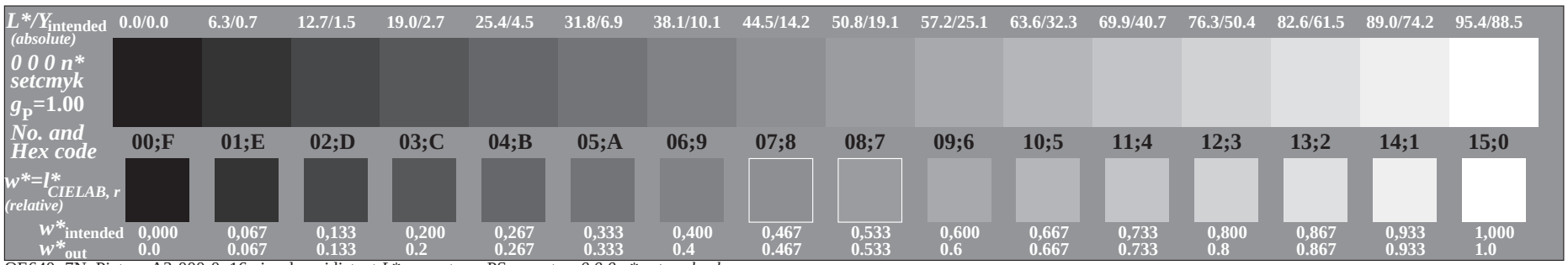


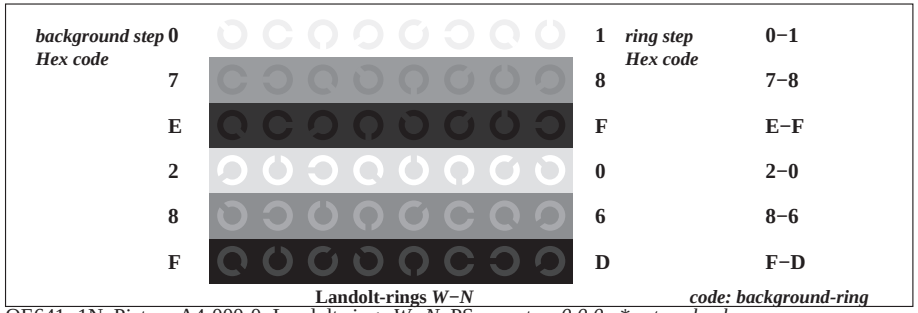
OE640−3N, Picture A1-000-0: Radial grating *N−W, W−N, N−Z, W−Z*; PS operator: *0 0 0 n* setcmykcolor*



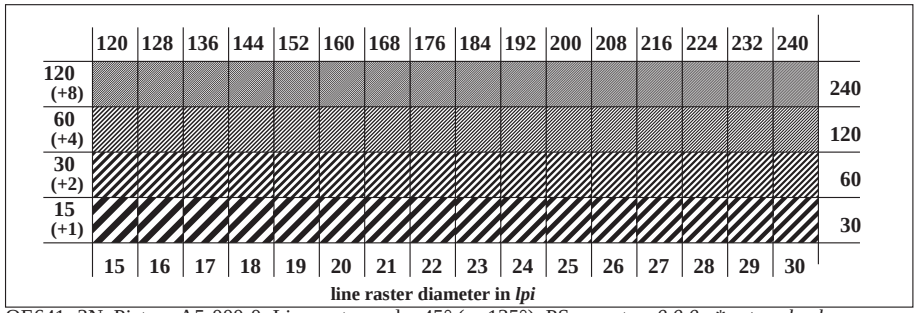
OE640−5N, Picture A2-000-0: 5 equidistant *L**-grey steps+*N0+W1*; PS operator: *0 0 0 n* setcmykcolor*



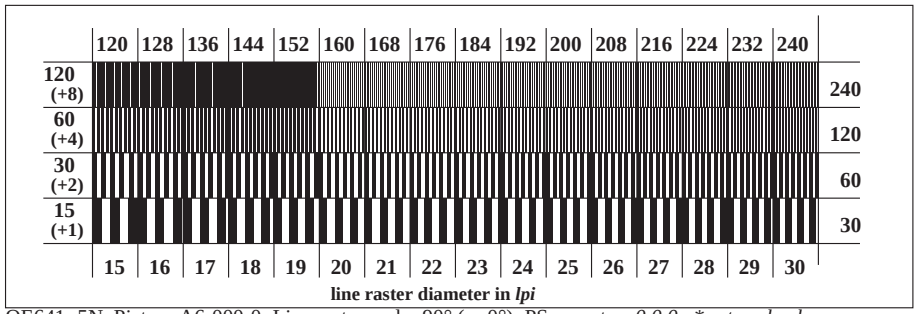
OE640−7N, Picture A3-000-0: 16 visual equidistant *L**-grey steps; PS operator: *0 0 0 n* setcmykcolor*



OE641−1N, Picture A4-000-0: Landolt-rings *W−N*; PS operator: *0 0 0 n* setcmykcolor*



OE641−3N, Picture A5-000-0: Line raster under 45° (or 135°); PS operator: *0 0 0 n* setcmykcolor*



OE641−5N, Picture A6-000-0: Line raster under 90° (or 0°); PS operator: *0 0 0 n* setcmykcolor*

OE64: 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: *all (−>rgb*d) setrgbcolor*
output 030-0: no change

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?
of the given 5 steps: **..... 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?
of the given 16 steps: **.... Steps**

Part 1 OE640−3N-000-1

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	
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 OE641−3N-000-1

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

PDF-File: http://130.149.60.45/farbmetrik/OE64/OE64L0NP.PDF **underline Yes/No**

PS-File: http://130.149.60.45/farbmetrik/OE64/OE64L0NA.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 OE64L0NP.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 OE64L0NA.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 OE640−7N-000-1

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/OE64/OE64F1P2.PDF **underline Yes/No**
PS file: http://130.149.60.45/farbmetrik/OE64/OE64F1P2.PS **underline 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 **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/OE64/OE64F1P2.PDF
picture A7-000-2 **underline Yes/No**
PS-File: http://130.149.60.45/farbmetrik/OE64/OE64F1P2.PS
picture A7-000-2 **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 and transfer
of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF **underline Yes/No**
If No, please describe other method: .....

Part 4 OE641−7N-000-1

i	LAB*ref			l*out	LAB*out			LAB*out/c−ref			ΔE*
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
2	6.36	0.0	0.0	0.07	6.36	0.0	0.0	0.0	0.0	0.0	0.01
3	12.72	0.0	0.0	0.13	12.72	0.0	0.0	0.0	0.0	0.0	0.01
4	19.08	0.0	0.0	0.2	19.08	0.0	0.0	0.0	0.0	0.0	0.01
5	25.44	0.0	0.0	0.27	25.44	0.0	0.0	0.0	0.0	0.0	0.01
6	31.8	0.0	0.0	0.33	31.8	0.0	0.0	0.0	0.0	0.0	0.01
7	38.16	0.0	0.0	0.4	38.16	0.0	0.0	0.0	0.0	0.0	0.01
8	44.52	0.0	0.0	0.47	44.52	0.0	0.0	0.0	0.0	0.0	0.01
9	50.89	0.0	0.0	0.53	50.89	0.0	0.0	0.0	0.0	0.0	0.01
10	57.25	0.0	0.0	0.6	57.25	0.0	0.0	0.0	0.0	0.0	0.01
11	63.61	0.0	0.0	0.67	63.61	0.0	0.0	0.0	0.0	0.0	0.01
12	69.97	0.0	0.0	0.73	69.97	0.0	0.0	0.0	0.0	0.0	0.01
13	76.33	0.0	0.0	0.8	76.33	0.0	0.0	0.0	0.0	0.0	0.01
14	82.69	0.0	0.0	0.87	82.69	0.0	0.0	0.0	0.0	0.0	0.01
15	89.05	0.0	0.0	0.93	89.05	0.0	0.0	0.0	0.0	0.0	0.01
16	95.41	0.0	0.0	1.0	95.41	0.0	0.0	0.0	0.0	0.0	0.01
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
18	23.85	0.0	0.0	0.25	23.85	0.0	0.0	0.0	0.0	0.0	0.01
19	47.71	0.0	0.0	0.5	47.71	0.0	0.0	0.0	0.0	0.0	0.01
20	71.56	0.0	0.0	0.75	71.56	0.0	0.0	0.0	0.0	0.0	0.01
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

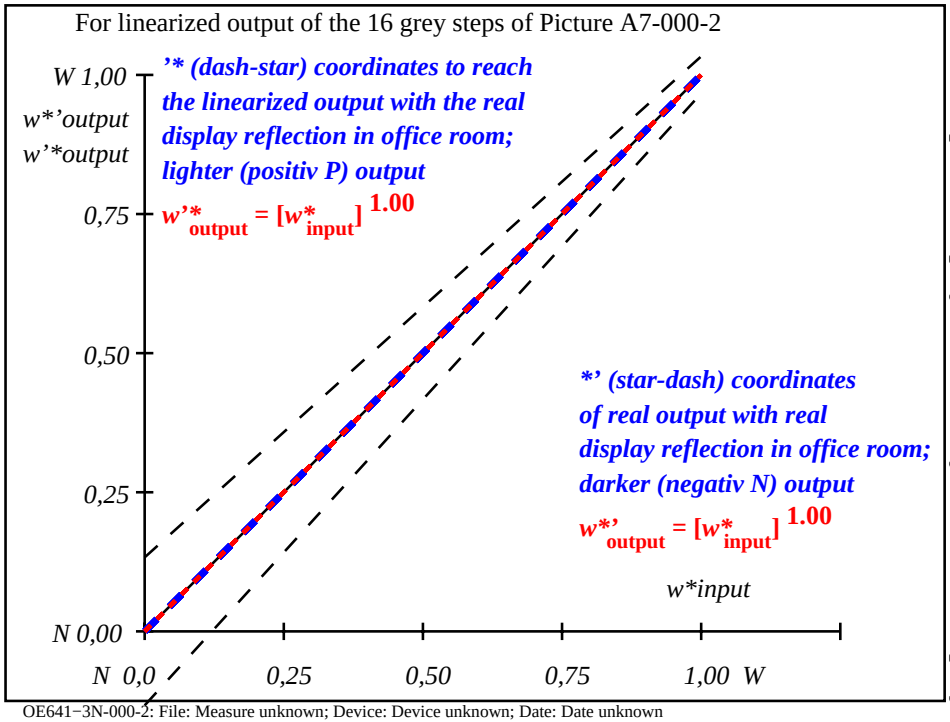
Mean lightness difference (16 steps)
ΔE^*_{CIELAB} = 0.0

Mean lightness difference (5 steps)
ΔL^*_{CIELAB} = 0.0

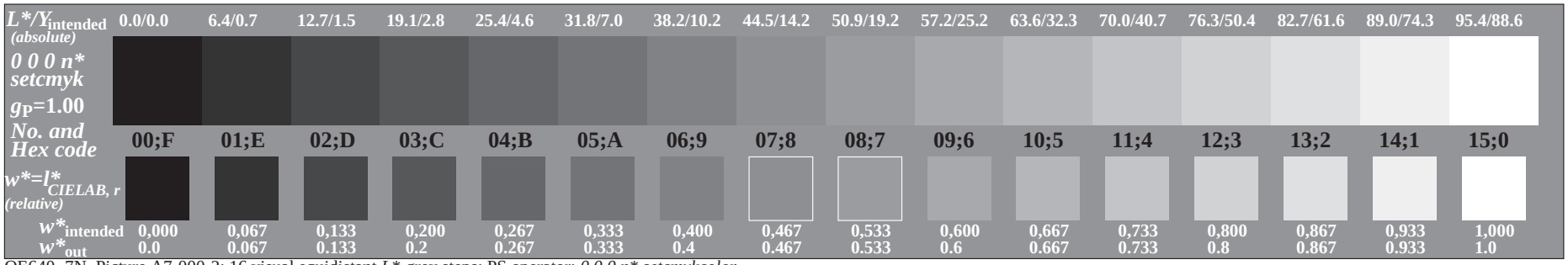
Mean colour reproduction index: $R^*_{ab,m}$ = 100

OE640−3N-000-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

For linearized output of the 16 grey steps of Picture A7-000-2



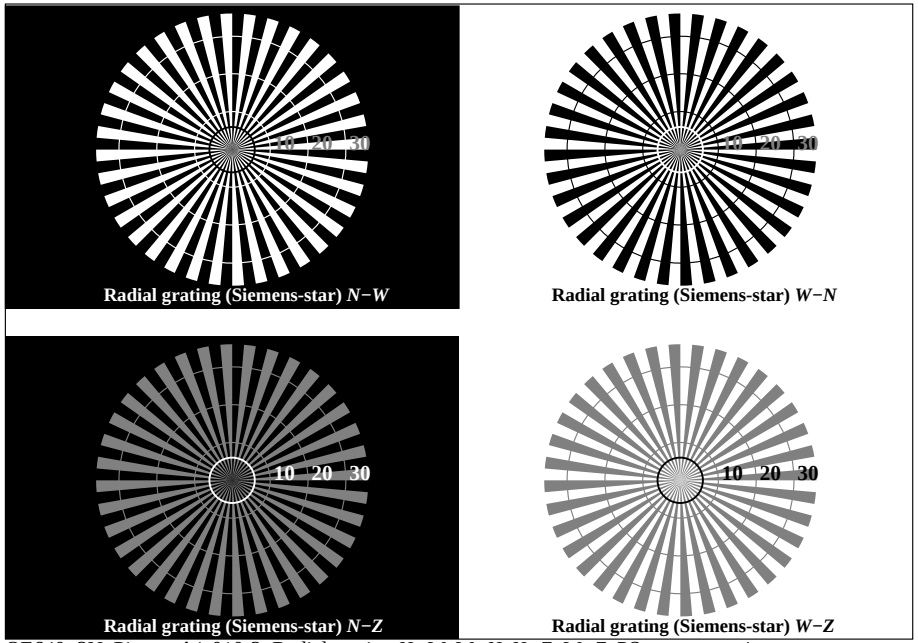
OE641−3N-000-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



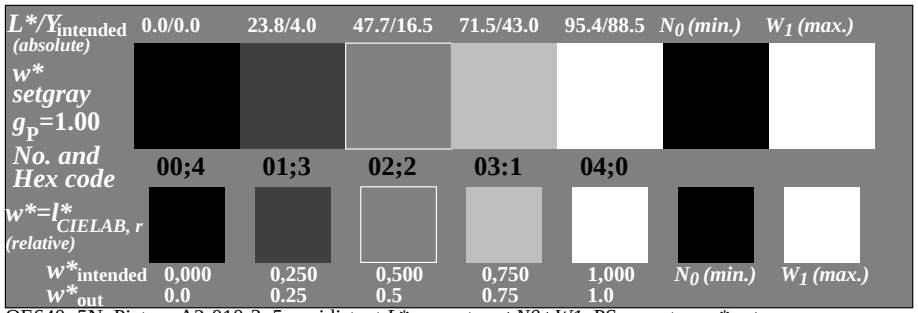
OE640−7N, Picture A7-000-2: 16 visual equidistant *L**-grey steps; PS operator: *0 0 0 n* setcmykcolor*

OE64: 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

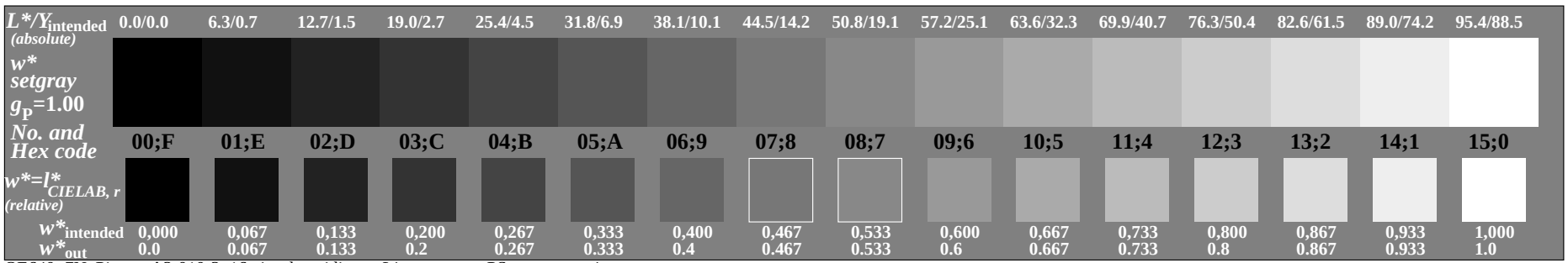
input: *all (−>rgb*d) setrgbcolor*
output 030-2: no change



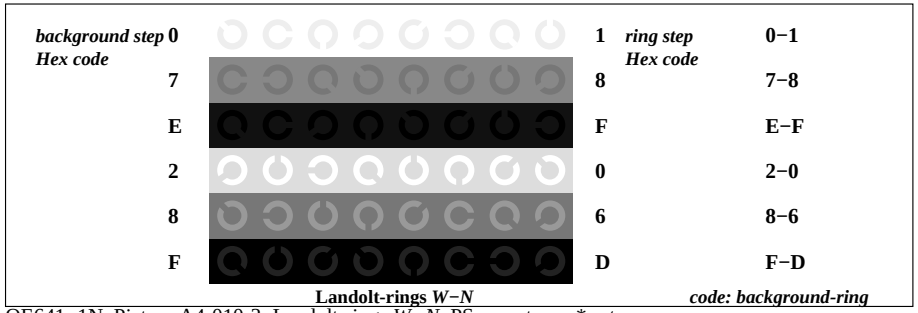
OE640−3N, Picture A1-010-3: Radial grating *N−W, W−N, N−Z, W−Z*; PS operator: *w* setgray*



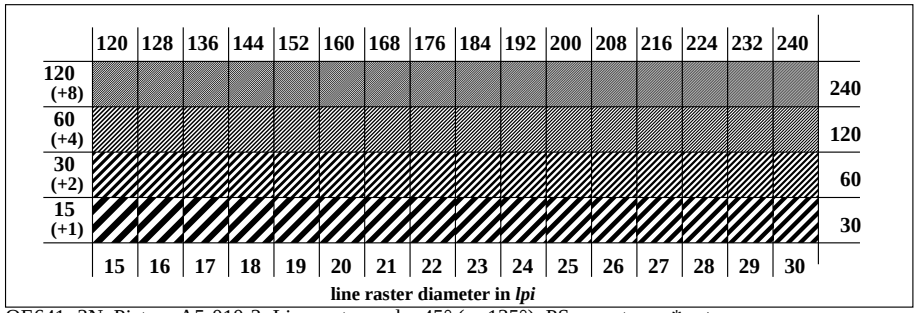
OE640−5N, Picture A2-010-3: 5 equidistant *L**-grey steps+*N0+W1*; PS operator: *w* setgray*



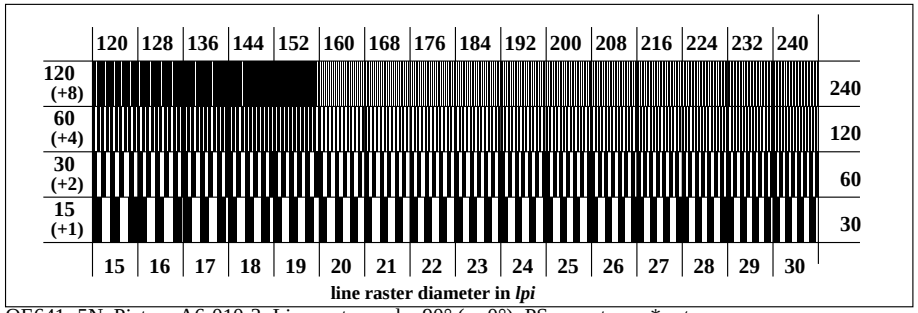
OE640−7N, Picture A3-010-3: 16 visual equidistant *L**-grey steps; PS operator: *w* setgray*



OE641−1N, Picture A4-010-3: Landolt-rings *W−N*; PS operator: *w* setgray*



OE641−3N, Picture A5-010-3: Line raster under 45° (or 135°); PS operator: *w* setgray*



OE641−5N, Picture A6-010-3: Line raster under 90° (or 0°); PS operator: *w* setgray*

Test for the best visual linearized output of Picture A7-010-0 **Yes/No**
Output test with the computer display ( ) or the external display ( )
Test of the radial grating according to picture A1-010-0

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**-010-0
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**-010-0
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 OE640−3N-010-4

Test for the best visual linearized output of Picture A7-010-0 **Yes/No**
Output test with the computer display ( ) or the external display ( )

Test of the *Landolt*-rings *N*−*W* according to picture A4-010-0
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 A5-010-0
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 A6-010-0
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 OE641−3N-010-4

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

PDF-File: http://130.149.60.45/farbmetrik/OE64/OE64L0NP.PDF **underline Yes/No**

PS-File: http://130.149.60.45/farbmetrik/OE64/OE64L0NA.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 OE64L0NP.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 OE64L0NA.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 OE640−7N-010-4

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/OE64/OE64F1P2.PDF **underline Yes/No**
PS file: http://130.149.60.45/farbmetrik/OE64/OE64F1P2.PS **underline Yes/No**
Picture A7-010-2: **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/OE64/OE64F1P2.PDF
picture A7-010-2 **underline Yes/No**
PS-File: http://130.149.60.45/farbmetrik/OE64/OE64F1P2.PS
picture A7-010-2 **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 and transfer
of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF **underline Yes/No**
If No, please describe other method: .....

Part 4 OE641−7N-010-4

i	LAB*ref			l*out	LAB*out			LAB*out/c−ref			ΔE*
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
2	6.36	0.0	0.0	0.07	6.36	0.0	0.0	0.0	0.0	0.0	0.01
3	12.72	0.0	0.0	0.13	12.72	0.0	0.0	0.0	0.0	0.0	0.01
4	19.08	0.0	0.0	0.2	19.08	0.0	0.0	0.0	0.0	0.0	0.01
5	25.44	0.0	0.0	0.27	25.44	0.0	0.0	0.0	0.0	0.0	0.01
6	31.8	0.0	0.0	0.33	31.8	0.0	0.0	0.0	0.0	0.0	0.01
7	38.16	0.0	0.0	0.4	38.16	0.0	0.0	0.0	0.0	0.0	0.01
8	44.52	0.0	0.0	0.47	44.52	0.0	0.0	0.0	0.0	0.0	0.01
9	50.89	0.0	0.0	0.53	50.89	0.0	0.0	0.0	0.0	0.0	0.01
10	57.25	0.0	0.0	0.6	57.25	0.0	0.0	0.0	0.0	0.0	0.01
11	63.61	0.0	0.0	0.67	63.61	0.0	0.0	0.0	0.0	0.0	0.01
12	69.97	0.0	0.0	0.73	69.97	0.0	0.0	0.0	0.0	0.0	0.01
13	76.33	0.0	0.0	0.8	76.33	0.0	0.0	0.0	0.0	0.0	0.01
14	82.69	0.0	0.0	0.87	82.69	0.0	0.0	0.0	0.0	0.0	0.01
15	89.05	0.0	0.0	0.93	89.05	0.0	0.0	0.0	0.0	0.0	0.01
16	95.41	0.0	0.0	1.0	95.41	0.0	0.0	0.0	0.0	0.0	0.01
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
18	23.85	0.0	0.0	0.25	23.85	0.0	0.0	0.0	0.0	0.0	0.01
19	47.71	0.0	0.0	0.5	47.71	0.0	0.0	0.0	0.0	0.0	0.01
20	71.56	0.0	0.0	0.75	71.56	0.0	0.0	0.0	0.0	0.0	0.01
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

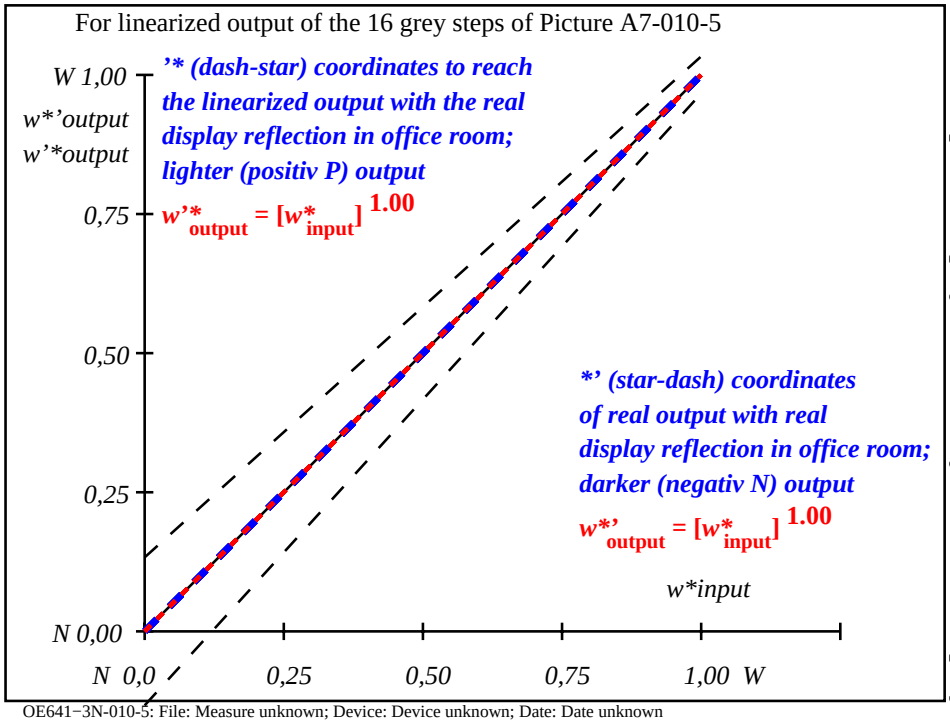
Mean lightness difference (16 steps)
ΔE^*_{CIELAB} = 0.0

Mean lightness difference (5 steps)
ΔL^*_{CIELAB} = 0.0

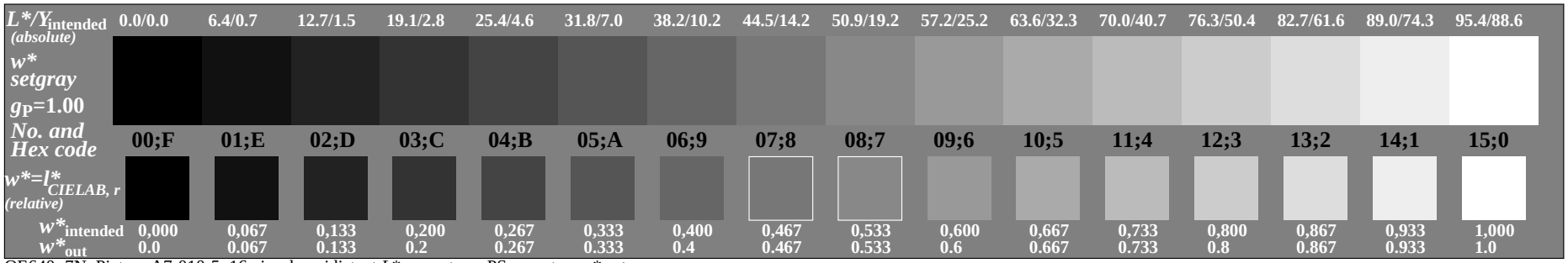
Mean colour reproduction index: $R^*_{ab,m}$ = 100

OE640−3N-010-5: File: Measure unknown; Device: Device unknown; Date: Date unknown

For linearized output of the 16 grey steps of Picture A7-010-5



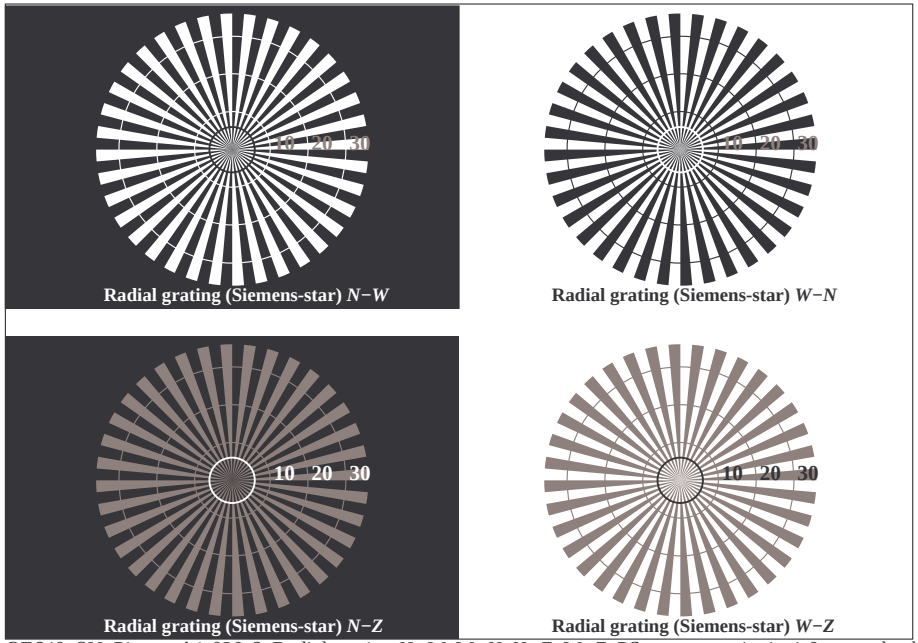
OE641−3N-010-5: File: Measure unknown; Device: Device unknown; Date: Date unknown



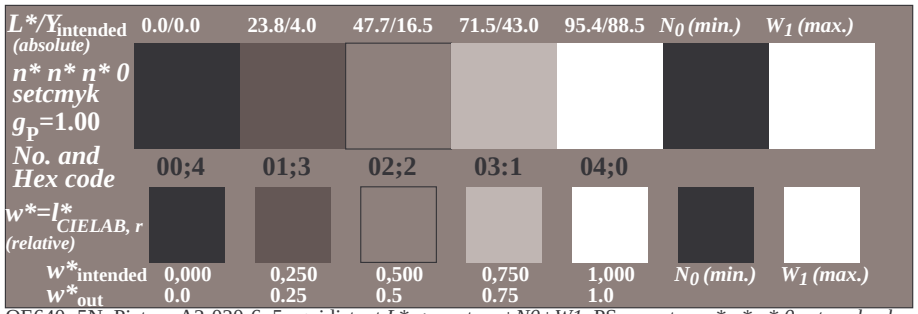
OE640−7N, Picture A7-010-5: 16 visual equidistant *L**-grey steps; PS operator: *w* setgray*

OE64: 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

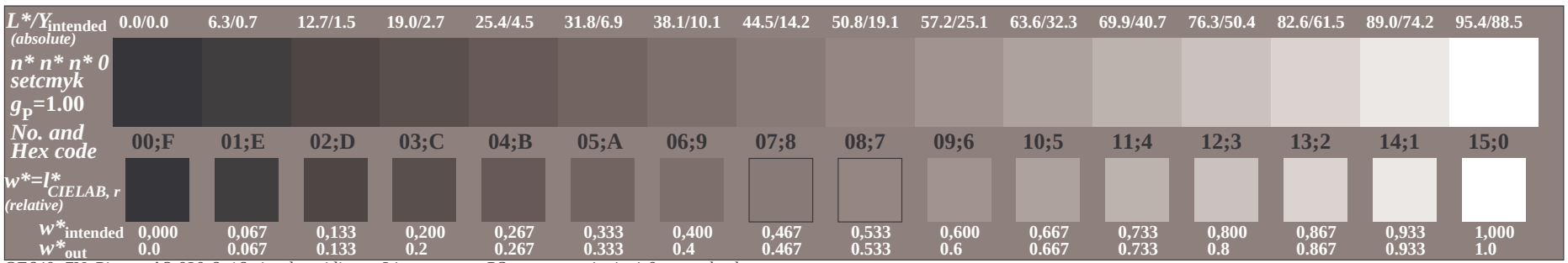
input: *all (−>rgb*d) setrgbcolor*
output 030-5: no change



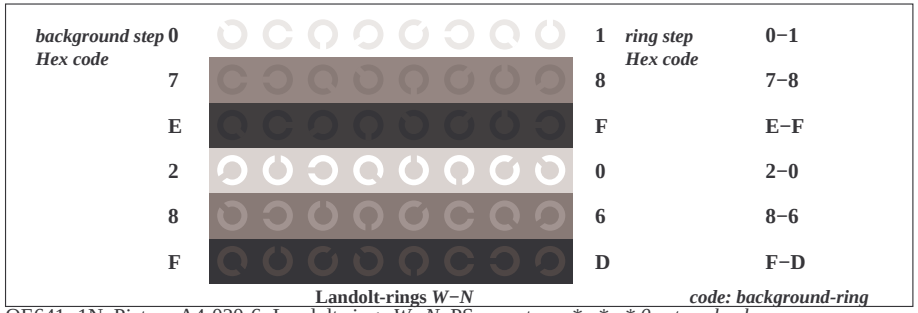
OE640−3N, Picture A1-020-6: Radial grating *N−W, W−N, N−Z, W−Z*; PS operator: *n* n* n* 0 setcmykcolor*



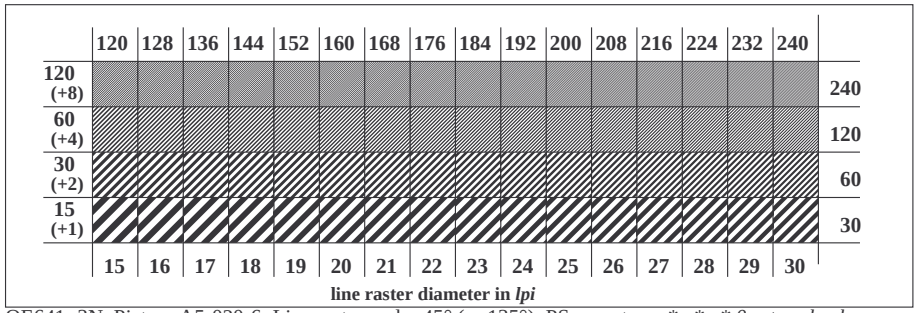
OE640−5N, Picture A2-020-6: 5 equidistant *L**-grey steps+*N0+W1*; PS operator: *n* n* n* 0 setcmykcolor*



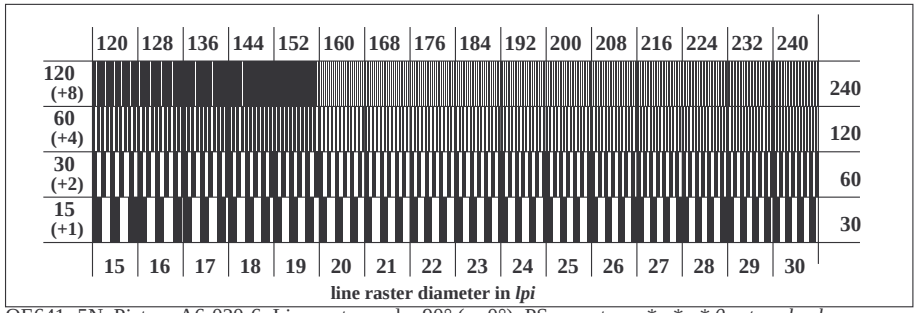
OE640−7N, Picture A3-020-6: 16 visual equidistant *L**-grey steps; PS operator: *n* n* n* 0 setcmykcolor*



OE641−1N, Picture A4-020-6: Landolt-rings *W−N*; PS operator: *n* n* n* 0 setcmykcolor*



OE641−3N, Picture A5-020-6: Line raster under 45° (or 135°); PS operator: *n* n* n* 0 setcmykcolor*



OE641−5N, Picture A6-020-6: Line raster under 90° (or 0°); PS operator: *n* n* n* 0 setcmykcolor*

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?
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?
of the given 16 steps: **.... Steps**

Part 1 OE640−3N-020-7

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 OE641−3N-020-7

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

PDF-File: http://130.149.60.45/farbmetrik/OE64/OE64L0NP.PDF **underline Yes/No**

PS-File: http://130.149.60.45/farbmetrik/OE64/OE64L0NA.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 OE64L0NP.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 OE64L0NA.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 OE640−7N-020-7

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/OE64/OE64F1P2.PDF **underline Yes/No**
PS file: http://130.149.60.45/farbmetrik/OE64/OE64F1P2.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/OE64/OE64F1P2.PDF
picture A7-020-2 **underline Yes/No**
PS-File: http://130.149.60.45/farbmetrik/OE64/OE64F1P2.PS
picture A7-020-2 **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 and transfer
of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF **underline Yes/No**
If No, please describe other method: .....

Part 4 OE641−7N-020-7

i	LAB*ref			l*out	LAB*out			LAB*out/c−ref			ΔE*
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
2	6.36	0.0	0.0	0.07	6.36	0.0	0.0	0.0	0.0	0.0	0.01
3	12.72	0.0	0.0	0.13	12.72	0.0	0.0	0.0	0.0	0.0	0.01
4	19.08	0.0	0.0	0.2	19.08	0.0	0.0	0.0	0.0	0.0	0.01
5	25.44	0.0	0.0	0.27	25.44	0.0	0.0	0.0	0.0	0.0	0.01
6	31.8	0.0	0.0	0.33	31.8	0.0	0.0	0.0	0.0	0.0	0.01
7	38.16	0.0	0.0	0.4	38.16	0.0	0.0	0.0	0.0	0.0	0.01
8	44.52	0.0	0.0	0.47	44.52	0.0	0.0	0.0	0.0	0.0	0.01
9	50.89	0.0	0.0	0.53	50.89	0.0	0.0	0.0	0.0	0.0	0.01
10	57.25	0.0	0.0	0.6	57.25	0.0	0.0	0.0	0.0	0.0	0.01
11	63.61	0.0	0.0	0.67	63.61	0.0	0.0	0.0	0.0	0.0	0.01
12	69.97	0.0	0.0	0.73	69.97	0.0	0.0	0.0	0.0	0.0	0.01
13	76.33	0.0	0.0	0.8	76.33	0.0	0.0	0.0	0.0	0.0	0.01
14	82.69	0.0	0.0	0.87	82.69	0.0	0.0	0.0	0.0	0.0	0.01
15	89.05	0.0	0.0	0.93	89.05	0.0	0.0	0.0	0.0	0.0	0.01
16	95.41	0.0	0.0	1.0	95.41	0.0	0.0	0.0	0.0	0.0	0.01
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
18	23.85	0.0	0.0	0.25	23.85	0.0	0.0	0.0	0.0	0.0	0.01
19	47.71	0.0	0.0	0.5	47.71	0.0	0.0	0.0	0.0	0.0	0.01
20	71.56	0.0	0.0	0.75	71.56	0.0	0.0	0.0	0.0	0.0	0.01
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

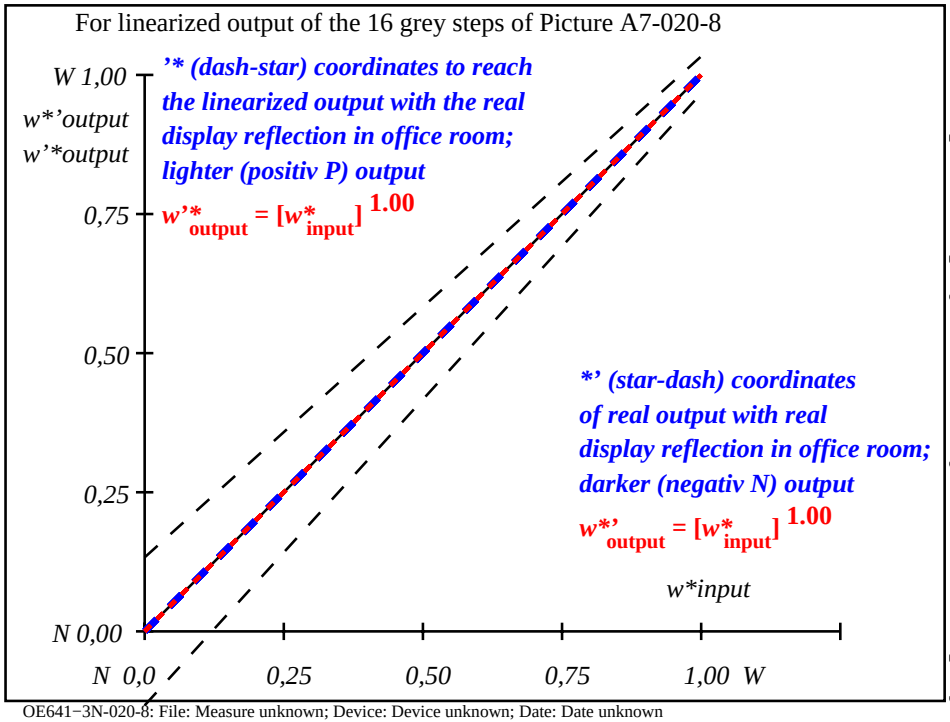
Mean lightness difference (16 steps)
ΔE^*_{CIELAB} = 0.0

Mean lightness difference (5 steps)
ΔL^*_{CIELAB} = 0.0

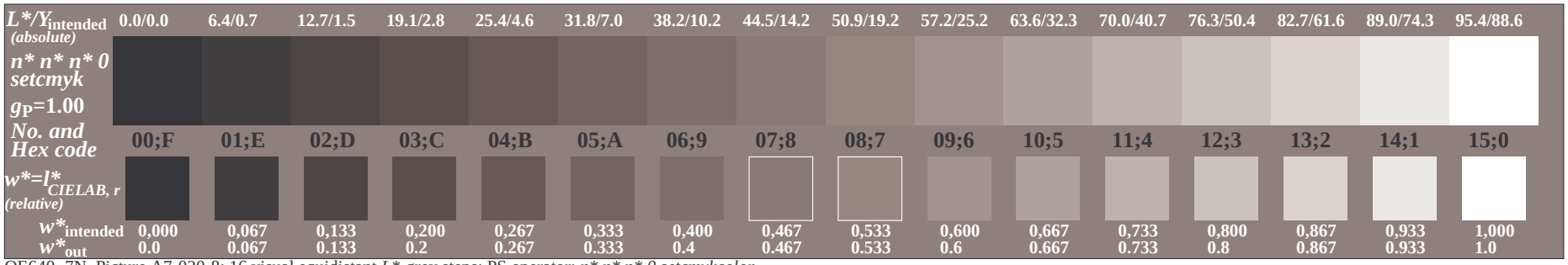
Mean colour reproduction index: $R^*_{ab,m}$ = 100

OE640−3N-020-8: File: Measure unknown; Device: Device unknown; Date: Date unknown

For linearized output of the 16 grey steps of Picture A7-020-8



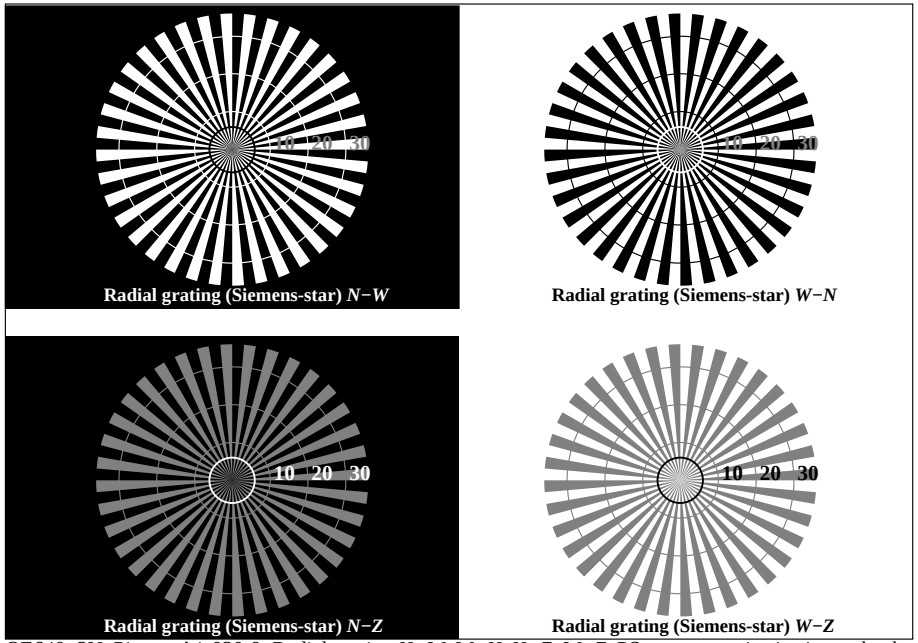
OE641−3N-020-8: File: Measure unknown; Device: Device unknown; Date: Date unknown



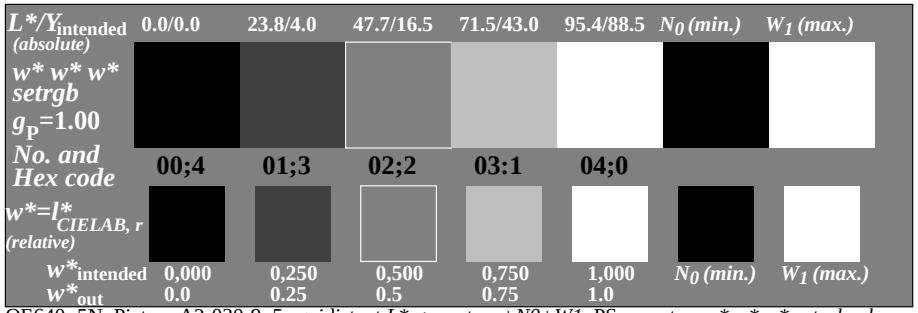
OE640−7N, Picture A7-020-8: 16 visual equidistant *L**-grey steps; PS operator: *n* n* n* 0 setcmykcolor*

OE64: 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

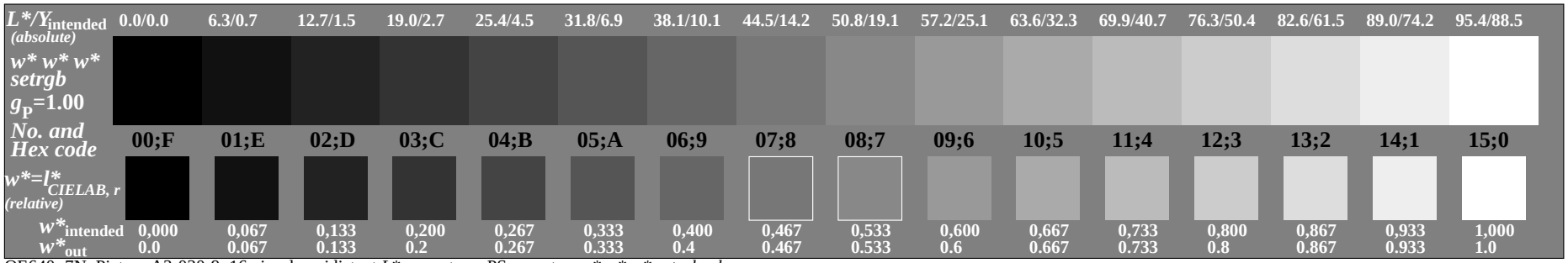
input: *all (−>rgb*d) setrgbcolor*
output 030-8: no change



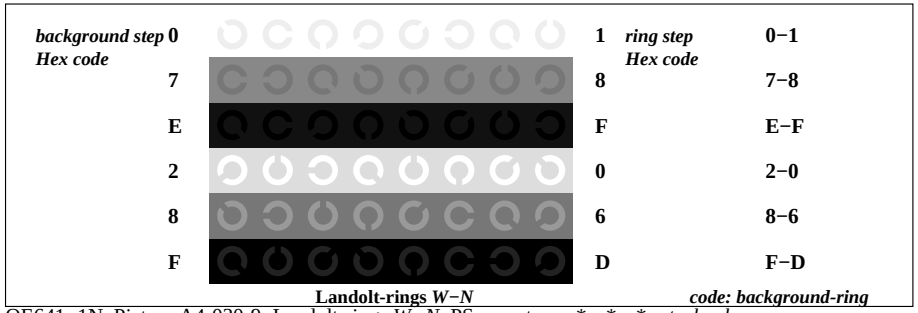
OE640−3N, Picture A1-030-9: Radial grating *N−W, W−N, N−Z, W−Z*; PS operator: *w* w* w* setrgbcolor*



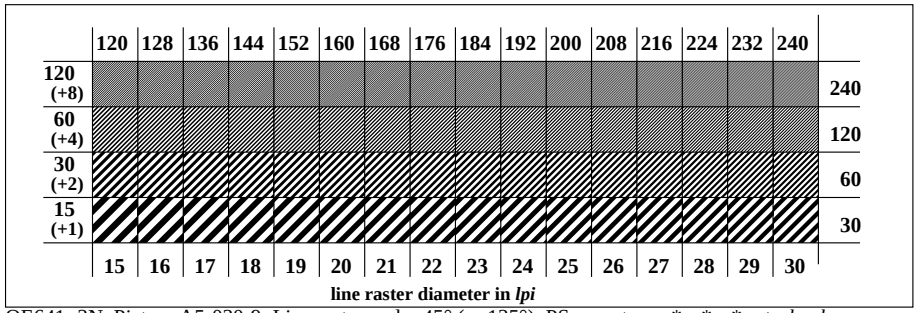
OE640−5N, Picture A2-030-9: 5 equidistant *L**-grey steps+*N0+W1*; PS operator: *w* w* w* setrgbcolor*



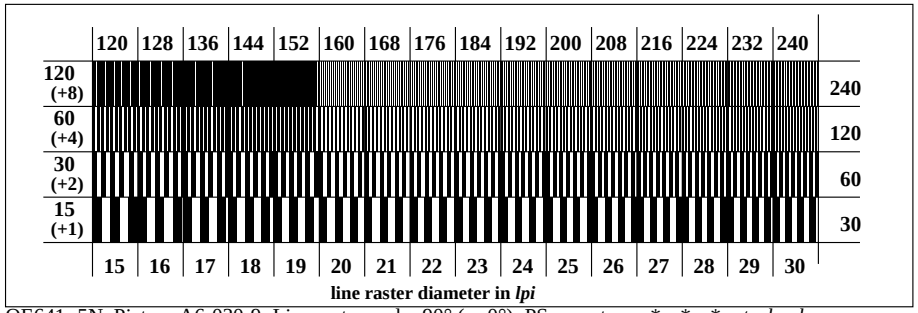
OE640−7N, Picture A3-030-9: 16 visual equidistant *L**-grey steps; PS operator: *w* w* w* setrgbcolor*



OE641−1N, Picture A4-030-9: Landolt-rings *W−N*; PS operator: *w* w* w* setrgbcolor*



OE641−3N, Picture A5-030-9: Line raster under 45° (or 135°); PS operator: *w* w* w* setrgbcolor*



OE641−5N, Picture A6-030-9: Line raster under 90° (or 0°); PS operator: *w* w* w* setrgbcolor*

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 OE640−3N-030-10

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 OE641−3N-030-10

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

PDF-File: http://130.149.60.45/farbmetrik/OE64/OE64L0NP.PDF **underline Yes/No**

PS-File: http://130.149.60.45/farbmetrik/OE64/OE64L0NA.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 OE64L0NP.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 OE64L0NA.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 OE640−7N-030-10

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/OE64/OE64F1P2.PDF **underline Yes/No**
PS file: http://130.149.60.45/farbmetrik/OE64/OE64F1P2.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/OE64/OE64F1P2.PDF
picture A7-030-2 **underline Yes/No**
PS-File: http://130.149.60.45/farbmetrik/OE64/OE64F1P2.PS
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 and transfer
of the PS-file L17e00NP.PS in PDF-file L17e00NP.PDF **underline Yes/No**
If No, please describe other method: .....

Part 4 OE641−7N-030-10

i	LAB*ref			l*out	LAB*out			LAB*out/c−ref			ΔE*
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
2	6.36	0.0	0.0	0.07	6.36	0.0	0.0	0.0	0.0	0.0	0.01
3	12.72	0.0	0.0	0.13	12.72	0.0	0.0	0.0	0.0	0.0	0.01
4	19.08	0.0	0.0	0.2	19.08	0.0	0.0	0.0	0.0	0.0	0.01
5	25.44	0.0	0.0	0.27	25.44	0.0	0.0	0.0	0.0	0.0	0.01
6	31.8	0.0	0.0	0.33	31.8	0.0	0.0	0.0	0.0	0.0	0.01
7	38.16	0.0	0.0	0.4	38.16	0.0	0.0	0.0	0.0	0.0	0.01
8	44.52	0.0	0.0	0.47	44.52	0.0	0.0	0.0	0.0	0.0	0.01
9	50.89	0.0	0.0	0.53	50.89	0.0	0.0	0.0	0.0	0.0	0.01
10	57.25	0.0	0.0	0.6	57.25	0.0	0.0	0.0	0.0	0.0	0.01
11	63.61	0.0	0.0	0.67	63.61	0.0	0.0	0.0	0.0	0.0	0.01
12	69.97	0.0	0.0	0.73	69.97	0.0	0.0	0.0	0.0	0.0	0.01
13	76.33	0.0	0.0	0.8	76.33	0.0	0.0	0.0	0.0	0.0	0.01
14	82.69	0.0	0.0	0.87	82.69	0.0	0.0	0.0	0.0	0.0	0.01
15	89.05	0.0	0.0	0.93	89.05	0.0	0.0	0.0	0.0	0.0	0.01
16	95.41	0.0	0.0	1.0	95.41	0.0	0.0	0.0	0.0	0.0	0.01
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01
18	23.85	0.0	0.0	0.25	23.85	0.0	0.0	0.0	0.0	0.0	0.01
19	47.71	0.0	0.0	0.5	47.71	0.0	0.0	0.0	0.0	0.0	0.01
20	71.56	0.0	0.0	0.75	71.56	0.0	0.0	0.0	0.0	0.0	0.01
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

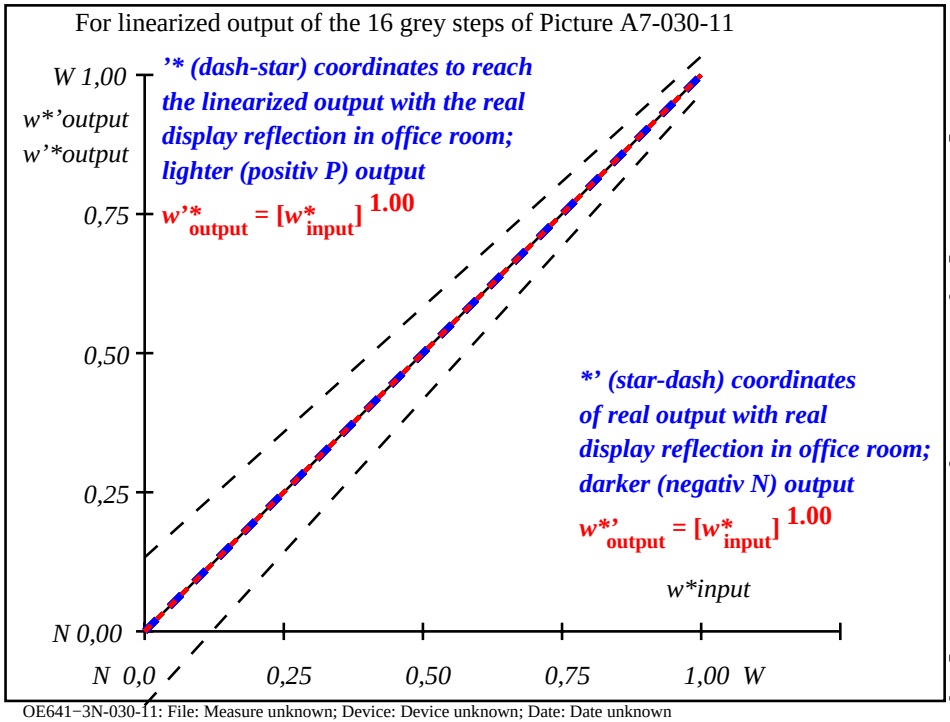
Mean lightness difference (16 steps)
ΔE^*_{CIELAB} = 0.0

Mean lightness difference (5 steps)
ΔL^*_{CIELAB} = 0.0

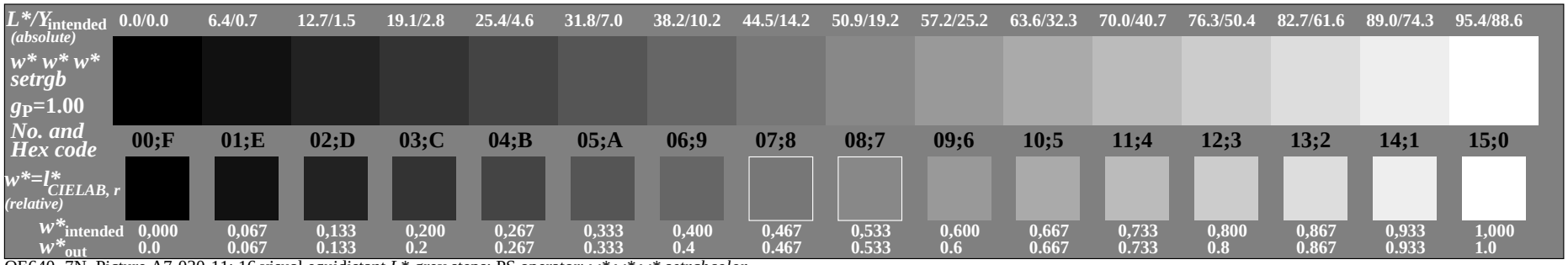
Mean colour reproduction index: $R^*_{ab,m}$ = 100

OE640−3N-030-11: File: Measure unknown; Device: Device unknown; Date: Date unknown

For linearized output of the 16 grey steps of Picture A7-030-11



OE641−3N-030-11: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE640−7N, Picture A7-030-11: 16 visual equidistant *L**-grey steps; PS operator: *w* w* w* setrgbcolor*

OE64: 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: *all (−>rgb*d) setrgbcolor*
output 030-11: no change