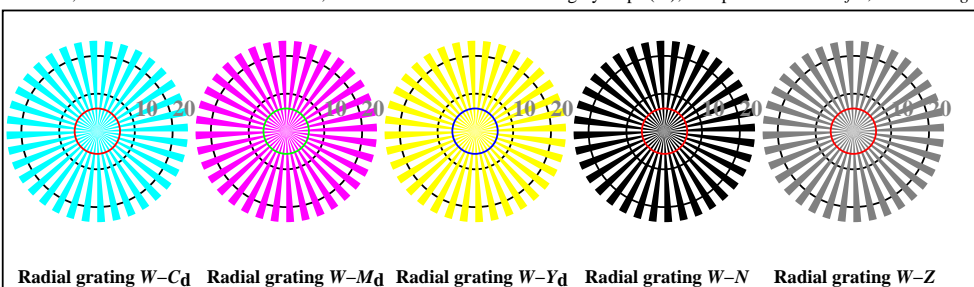


<http://130.149.60.45/~farbmetrik/OE57/OE57L0NA.TXT> /.PS; start output, Page 1/3
N: No Output Linearization (OL) data in File (F), Startup (S) or Device (D)



OE570-7, Picture B1-030-0: Flower motif, 14 CIE-test colours and 2 + 16 grey steps (nf); PS operators *settransfer*, 3 *colorimage*



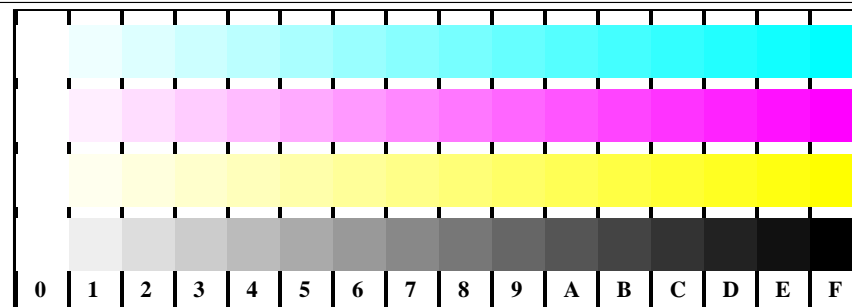
Radial grating W-C_d Radial grating W-M_d Radial grating W-Y_d Radial grating W-N Radial grating W-Z

OE570-5, Picture B2W-030-0: Radial gratings W-C_d; W-M_d; W-Y_d; W-N; PS operator $\rightarrow \text{rgb}_d \text{ setrgbcolor}$

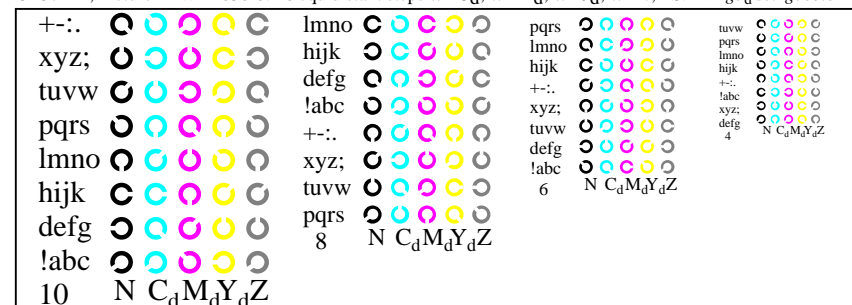


OE570-7, Picture B3W-030-0: 14 CIE-test colours and 2 + 16 grey steps; PS operator $\rightarrow \text{rgb}_d \text{ setrgbcolor}$

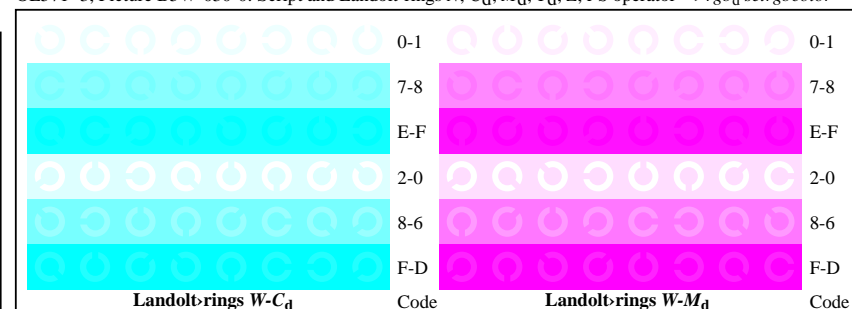
OE57: Test chart 2 according to ISO 15775, TR 24705; DH
Image, radial gratings, 16 step colour scales, Landolt-rings



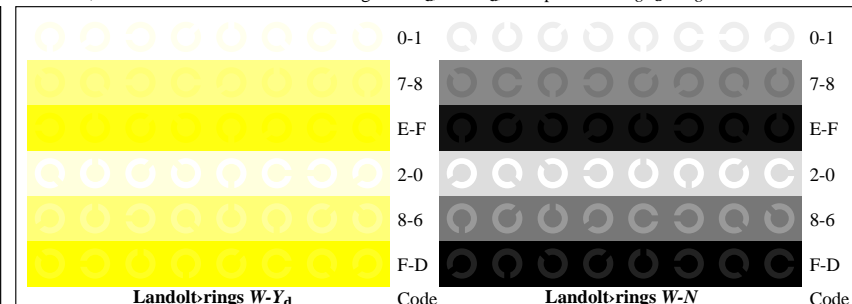
OE571-1, Picture B4W-L-030-0: 16 equidistant steps W-C_d; W-M_d; W-Y_d; W-N; PS: $\rightarrow \text{rgb}_d \text{ setrgbcolor}$



OE571-3, Picture B5W-030-0: Script and Landolt-rings N; C_d; M_d; Y_d; Z; PS operator $\rightarrow \text{rgb}_d \text{ setrgbcolor}$



OE571-5, Picture B6W-L-030-0: Landolt-rings W-C_d; W-M_d; PS operator $\rightarrow \text{rgb}_d \text{ setrgbcolor}$



OE571-7, Picture B7W-L-030-0: Landolt-rings W-Y_d; W-N; PS operator $\rightarrow \text{rgb}_d \text{ setrgbcolor}$

input: *rgb* ($\rightarrow \text{rgb}_d$) *setrgbcolor*
output 030-0: no change

Test for the visual linearized output of Pictures B1W-030-0 to B7W-030-0
Output test with the computer display () or the external display () please mark by (x)!

Test of the (flower) image according to picture B1W-030-0
 Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
 Subjective remarks about the colour reproduction of the (flower) image, the CIE-test colours and the 16 grey steps within the image, for example "less contrast":

Test of the resolution of radial gratings $W-C_d$, $W-M_d$, $W-Y_d$ according to picture B2W-030-0

	$W-C_d$	$W-M_d$	$W-Y_d$	$W-N$	$W-Z$
Is the resolution diameter < 6 mm?	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
Test with magnifying glass (6x), Resolution diameter: mm mm mm mm mm

Test of the 14 CIE-test colours according to picture B3W-030-0
 Are clear (immediately conspicuous) differences recognized between reproduction and test chart? **Yes/No**
 If Yes: How many colours have clear differences? of the given 14 steps: **..... Steps**

Test of 16 visual equidistant L^* -grey steps according to picture B3W-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 OE570-3N-030-1

Documentation of file format, hardware and software for this test:
PDF-File: <http://130.149.60.45/farbmetrik/OE57/OE57L0NP.PDF> **underline Yes/No**
PS-File: <http://130.149.60.45/farbmetrik/OE57/OE57L0NA.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 OE57L0NP.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 OE57L0NA.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 OE570-7N-030-1

Test of 16 visually equally spaced steps of the colour rows $W-C_d$, $W-M_d$, $W-Y_d$, and $W-N$ according to picture B4W-030-0
 $W-C_d$ White – Cyanblue: Are all the 16 steps distinguishable? **Yes/No**
 If No: How many steps can be distinguished? of the given 16 steps: Steps
 $W-M_d$ White – Magentared: Are all the 16 steps distinguishable? **Yes/No**
 If No: How many steps can be distinguished? of the given 16 steps: Steps
 $W-Y_d$ White – Yellow: Are all the 16 steps distinguishable? **Yes/No**
 If No: How many steps can be distinguished? of the given 16 steps: Steps
 $W-N$ White – Black: Are all the 16 steps distinguishable? **Yes/No**
 If No: How many steps can be distinguished? of the given 16 steps: Steps

Test of characters and Landolt-rings in four sizes according to picture B5W-030-0
 Is the recognition frequency > 50% for letters (17 from 32 at least) and for Landolt-rings (minimum 5 of 8)?

Relative size	Letters	Ring N	Ring C_d	Ring M_d	Ring Y_d
10	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
8	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
6	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No
4	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No

Test of recognition frequency of Landolt-rings $W-C_d$, $W-M_d$, $W-Y_d$, and $W-N$ according to pictures B6W-030-0, and B7W-030-0
 Is the recognition frequency of the Landolt-rings > 50% (min. 5 of 8 at least)?

Colour row $W-C_d$ background – ring	Colour row $W-M_d$ background – ring	Colour row $W-Y_d$ background – ring	Colour row $W-N$ background – ring
0 – 1 Yes/No	0 – 1 Yes/No	0 – 1 Yes/No	0 – 1 Yes/No
7 – 8 Yes/No	7 – 8 Yes/No	7 – 8 Yes/No	7 – 8 Yes/No
E – F Yes/No	E – F Yes/No	E – F Yes/No	E – F Yes/No
2 – 0 Yes/No	2 – 0 Yes/No	2 – 0 Yes/No	2 – 0 Yes/No
8 – 6 Yes/No	8 – 6 Yes/No	8 – 6 Yes/No	8 – 6 Yes/No
F – D Yes/No	F – D Yes/No	F – D Yes/No	F – D Yes/No

Part 1 OE571-3N-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/OE57/OE57F1P2.PDF> **underline Yes/No**
PS file: <http://130.149.60.45/farbmetrik/OE57/OE57F1P2.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/OE57/OE57F1P2.PDF> **underline Yes/No**
PS-File: <http://130.149.60.45/farbmetrik/OE57/OE57F1P2.PS> **or underline Yes/No**
picture A7-030-2 **underline Yes/No**
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 OE571-7N-030-1

OE57: Form A for test chart 2 according to ISO 15775; DH
 Image, radial gratings, 16 step colour scales, Landolt-rings

input: $rgb(->rgb_d)$ setrgbcolor
 output 030-1: no change

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

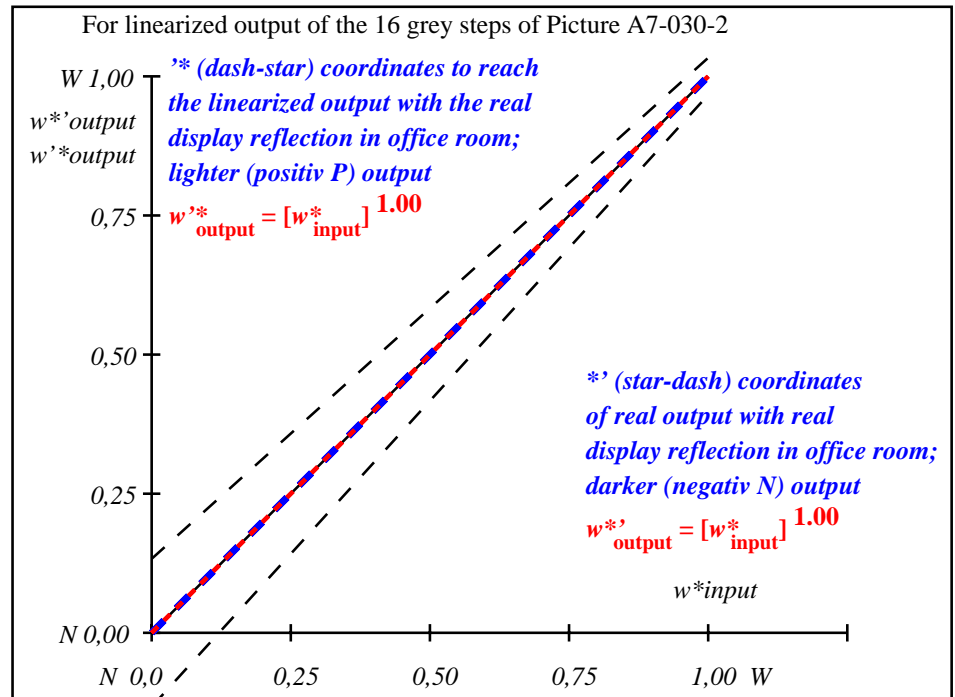
Start output S1
Specification according to
ISO/IEC 15775 Annex G
and DIN 33866-1 Annex G

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

OE570-3N-030-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE571-3N-030-2: 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
$w^* w^* w^*$ setrgb 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
$w^* = l^*$ CIELAB, r (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} w^*_{out}	0.000 0.0	0.067 0.067	0.133 0.133	0.200 0.2	0.267 0.267	0.333 0.333	0.400 0.4	0.467 0.467	0.533 0.533	0.600 0.6	0.667 0.667	0.733 0.733	0.800 0.8	0.867 0.867	0.933 0.933	1.000 1.0

OE570-7N, Picture A7-030-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^*$ setrgbcolor

OE57: 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: $rgb \rightarrow rgb^*_d$ setrgbcolor
output 030-2: no change

TUB registration: 20110801-OE57/OE57L0NA.TXT / .PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta