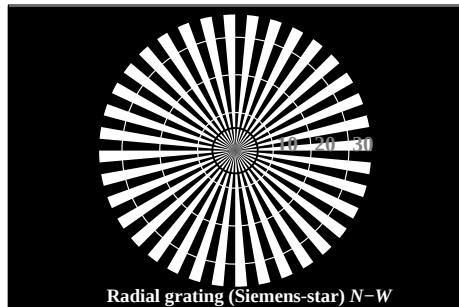


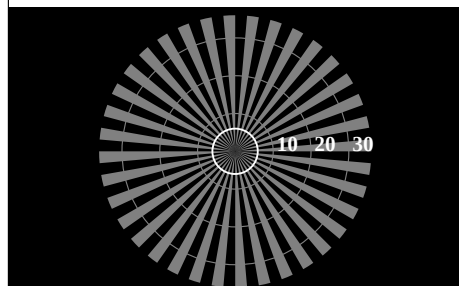
See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



Radial grating (Siemens-star) N-W



Radial grating (Siemens-star) W-N

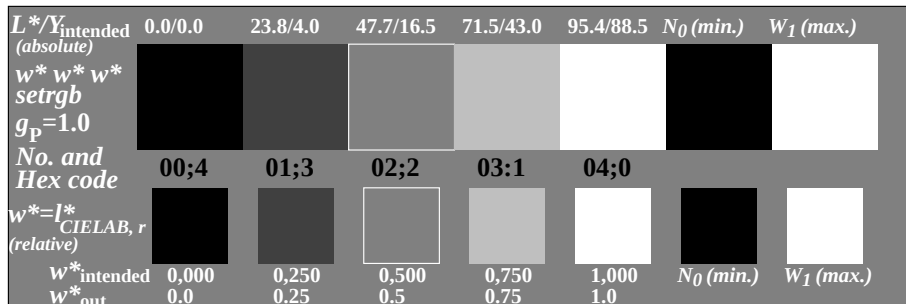


Radial grating (Siemens-star) N-Z

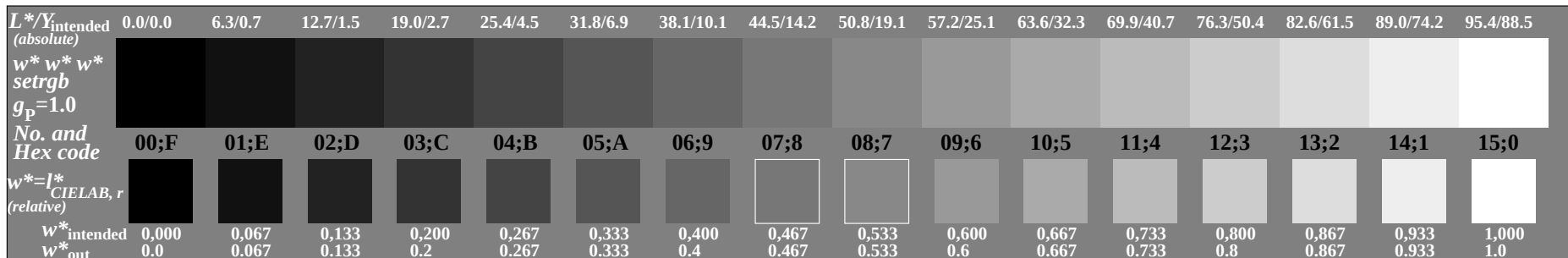


Radial grating (Siemens-star) W-Z

OE610-3N, Picture A1-130-0: Radial grating N-W, W-N, N-Z, W-Z; PS operator: $w^* w^* w^* \text{setrgbcolor}$



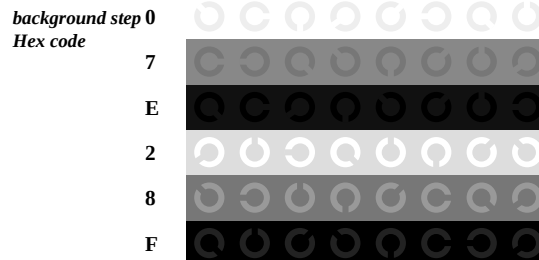
OE610-5N, Picture A2-130-0: 5 equidistant L^* -grey steps+ N_0 + W_1 ; PS operator: $w^* w^* w^* \text{setrgbcolor}$



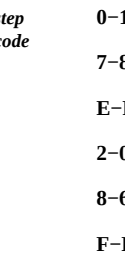
OE610-7N, Picture A3-130-0: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^* \text{setrgbcolor}$

OE61: similar ME16 according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:0,31$; Y_N range 0,0 to <0,46

input: $w (->rgb^*_{de}) \text{setgray}$
output 130-0: $g_p=1.0$; $g_N=1.0$

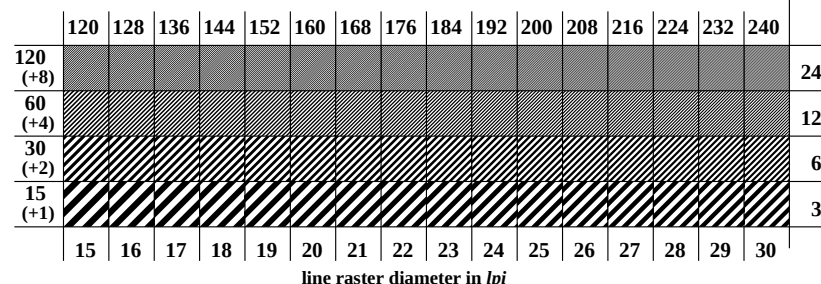


Landolt-rings W-N



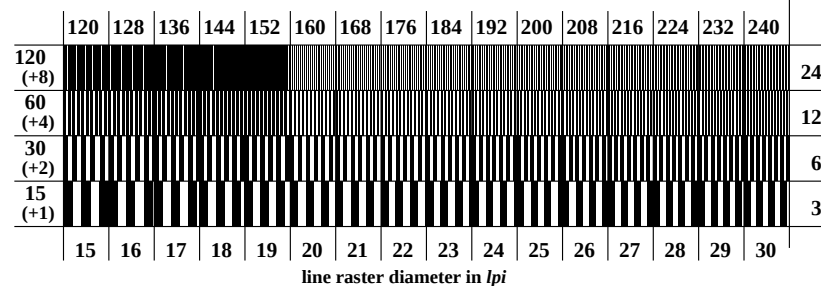
code: background-ring

OE611-1N, Picture A4-130-0: Landolt-rings W-N; PS operator: $w^* w^* w^* \text{setrgbcolor}$



line raster diameter in lpi

OE611-3N, Picture A5-130-0: Line raster under 45° (or 135°); PS operator: $w^* w^* w^* \text{setrgbcolor}$



line raster diameter in lpi

OE611-5N, Picture A6-130-0: Line raster under 90° (or 0°); PS operator: $w^* w^* w^* \text{setrgbcolor}$

TUB registration: 20110801-OE61/OE61L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta

Part 1	OE610-3N-130-1
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Part 3 OE610-7N-130-1

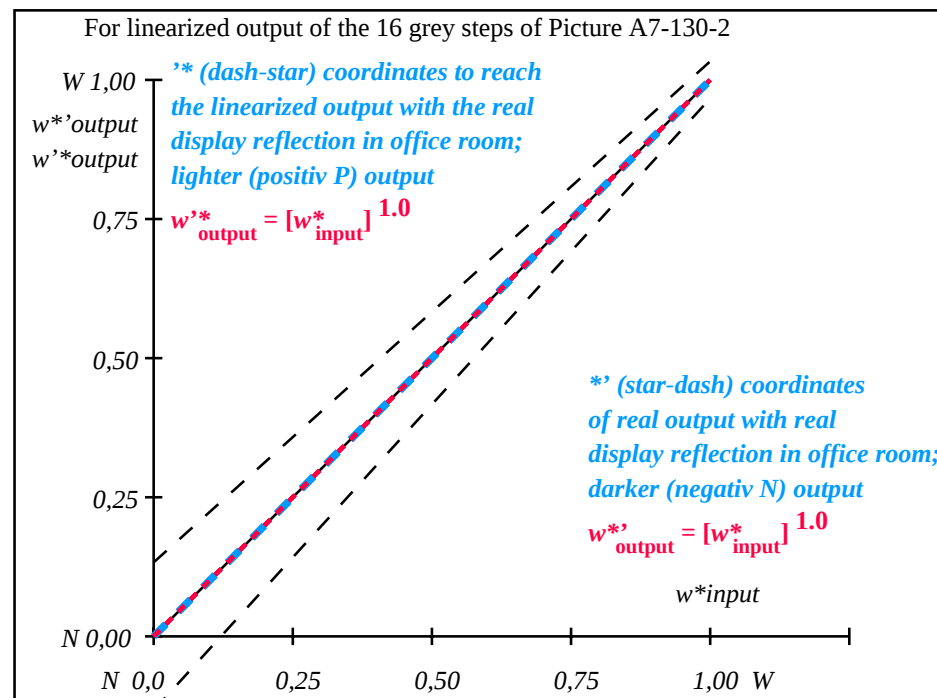
Part 2
OE611-3N-130-1

Part 4
OE611-7N-130-1

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, CIELAB

i	LAB*ref	L*out	LAB*out	LAB*out/c-ref	ΔE*	Start output S1
1	0.0	0.0	0.0	0.0	0.0	0.01
2	6.36	0.0	0.07	6.36	0.0	0.01
3	12.72	0.0	0.13	12.72	0.0	0.01
4	19.08	0.0	0.2	19.08	0.0	0.01
5	25.44	0.0	0.27	25.44	0.0	0.01
6	31.8	0.0	0.33	31.8	0.0	0.01
7	38.16	0.0	0.4	38.16	0.0	0.01
8	44.52	0.0	0.47	44.52	0.0	0.01
9	50.89	0.0	0.53	50.89	0.0	0.01
10	57.25	0.0	0.6	57.25	0.0	0.01
11	63.61	0.0	0.67	63.61	0.0	0.01
12	69.97	0.0	0.73	69.97	0.0	0.01
13	76.33	0.0	0.8	76.33	0.0	0.01
14	82.69	0.0	0.87	82.69	0.0	0.01
15	89.05	0.0	0.93	89.05	0.0	0.01
16	95.41	0.0	1.0	95.41	0.0	0.01
17	0.0	0.0	0.0	0.0	0.0	0.01
18	23.85	0.0	0.25	23.85	0.0	0.01
19	47.71	0.0	0.5	47.71	0.0	0.01
20	71.56	0.0	0.75	71.56	0.0	0.01
21	95.41	0.0	1.0	95.41	0.0	0.01
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

OE610-3N-130-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE611-3N-130-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

$L^*/Y^*_{\text{intended}}$ (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 $g_p=1.0$ 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
$w^* = [L^*_{\text{CIELAB}, r}]$ (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

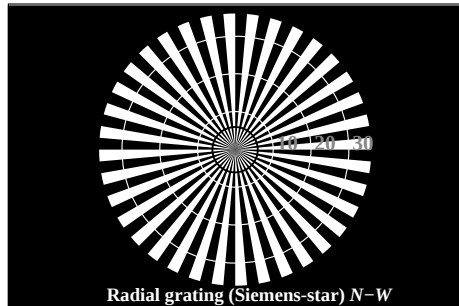
OE610-7N, Picture A7-130-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^*$ setrgbcolor

OE61: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:0,31$; Y_N range 0,0 to <0,46

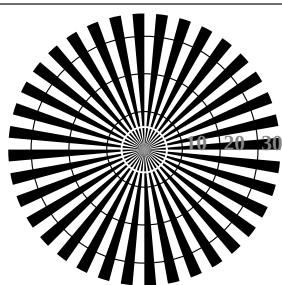
input: w ($\rightarrow rgb^*_{de}$) setgray
output 130-2: $g_p=1.0$; $g_N=1.0$

TUB registration: 20110801-OE61/OE61L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta

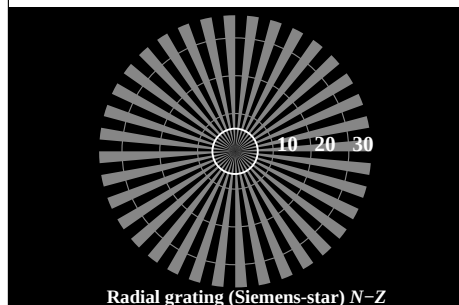
See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



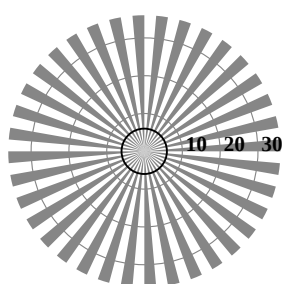
Radial grating (Siemens-star) N-W



Radial grating (Siemens-star) W-N

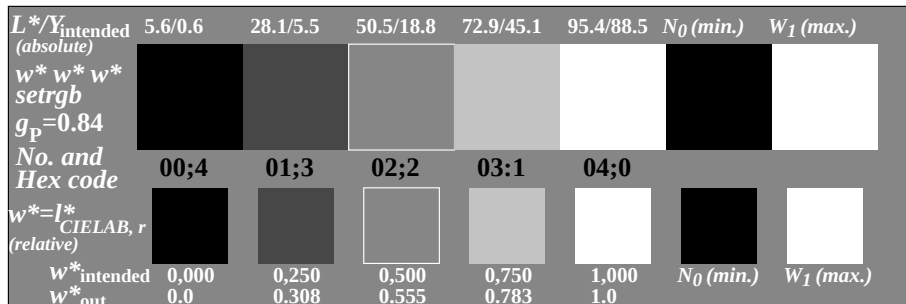


Radial grating (Siemens-star) N-Z

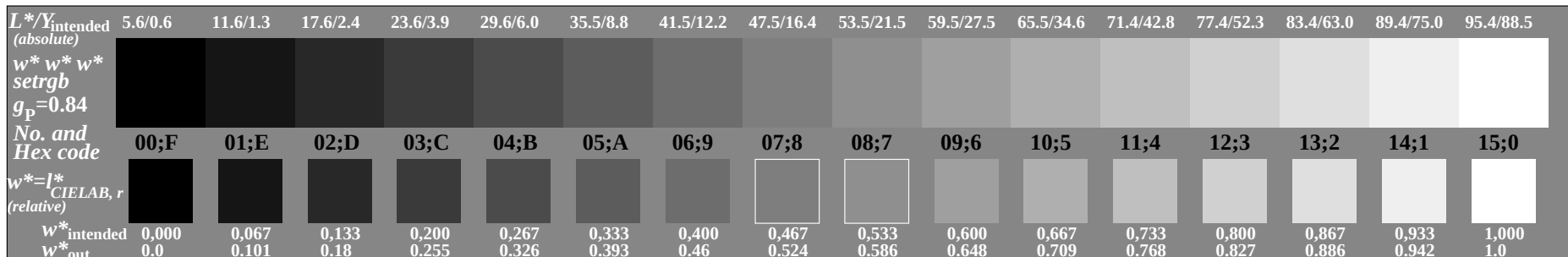


Radial grating (Siemens-star) W-Z

OE610-3N, Picture A1-131-0: Radial grating N-W, W-N, N-Z, W-Z; PS operator: $w^* w^* w^* \text{setrgbcolor}$



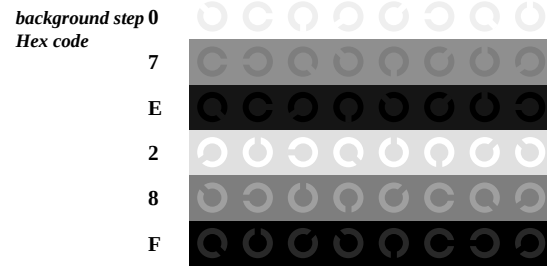
OE610-5N, Picture A2-131-0: 5 equidistant L^* -grey steps+ N_0 + W_1 ; PS operator: $w^* w^* w^* \text{setrgbcolor}$



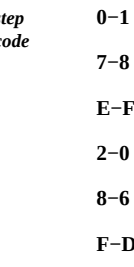
OE610-7N, Picture A3-131-0: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^* \text{setrgbcolor}$

OE61: similar ME16 according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:0,62$; Y_N range 0,46 to <0,93

input: $w (->rgb^*_{de}) \text{setgray}$
output 131-0: $g_p=0.92$; $g_N=1.0$

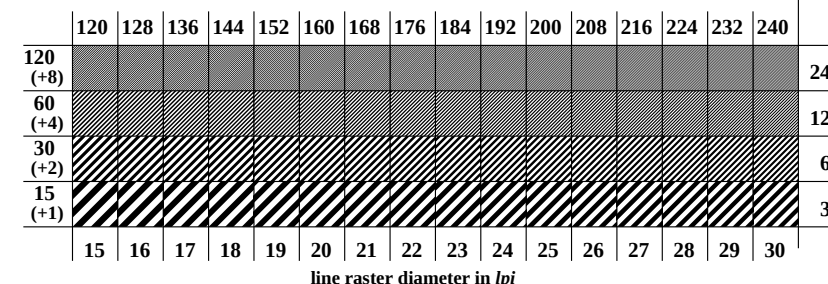


Landolt-rings W-N



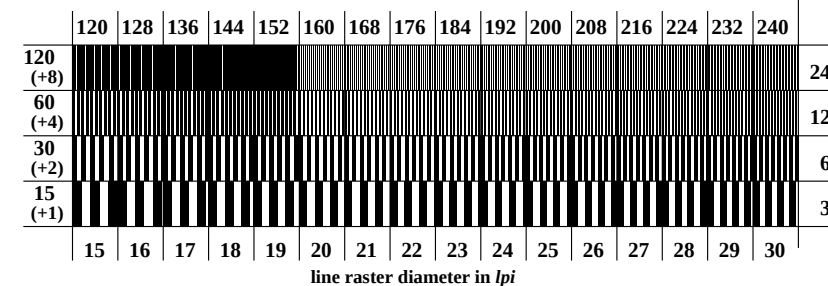
code: background-ring

OE611-1N, Picture A4-131-0: Landolt-rings W-N; PS operator: $w^* w^* w^* \text{setrgbcolor}$



line raster diameter in lpi

OE611-3N, Picture A5-131-0: Line raster under 45° (or 135°); PS operator: $w^* w^* w^* \text{setrgbcolor}$



line raster diameter in lpi

OE611-5N, Picture A6-131-0: Line raster under 90° (or 0°); PS operator: $w^* w^* w^* \text{setrgbcolor}$

TUB registration: 20110801-OE61/OE61L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta

Part 1	OE610-3N-131-1
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Part 3	OE610-7N-131-1
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Part 2	OE611-3N-131-1
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Part 4
OE611-7N-131-1

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, CIELAB

i	LAB*ref	L*out	LAB*out	LAB*out/c-ref	ΔE*	Start output S1
1	5.69	0.0	0.0	5.69	0.0	0.0
2	11.67	0.0	0.1	14.73	0.0	0.0
3	17.65	0.0	0.18	21.96	0.0	0.0
4	23.63	0.0	0.26	28.63	0.0	0.0
5	29.62	0.0	0.33	34.96	0.0	0.0
6	35.6	0.0	0.39	41.05	0.0	0.0
7	41.58	0.0	0.46	46.96	0.0	0.0
8	47.56	0.0	0.52	52.72	0.0	0.0
9	53.54	0.0	0.59	58.36	0.0	0.0
10	59.52	0.0	0.65	63.88	0.0	0.0
11	65.5	0.0	0.71	69.32	0.0	0.0
12	71.48	0.0	0.77	74.67	0.0	0.0
13	77.47	0.0	0.83	79.95	0.0	0.0
14	83.45	0.0	0.89	85.16	0.0	0.0
15	89.43	0.0	0.94	90.31	0.0	0.0
16	95.41	0.0	1.0	95.41	0.0	0.0
17	5.69	0.0	0.0	5.69	0.0	0.0
18	28.12	0.0	0.31	33.4	0.0	0.0
19	50.55	0.0	0.56	55.55	0.0	0.0
20	72.98	0.0	0.78	76.0	0.0	0.0
21	95.41	0.0	1.0	95.41	0.0	0.0

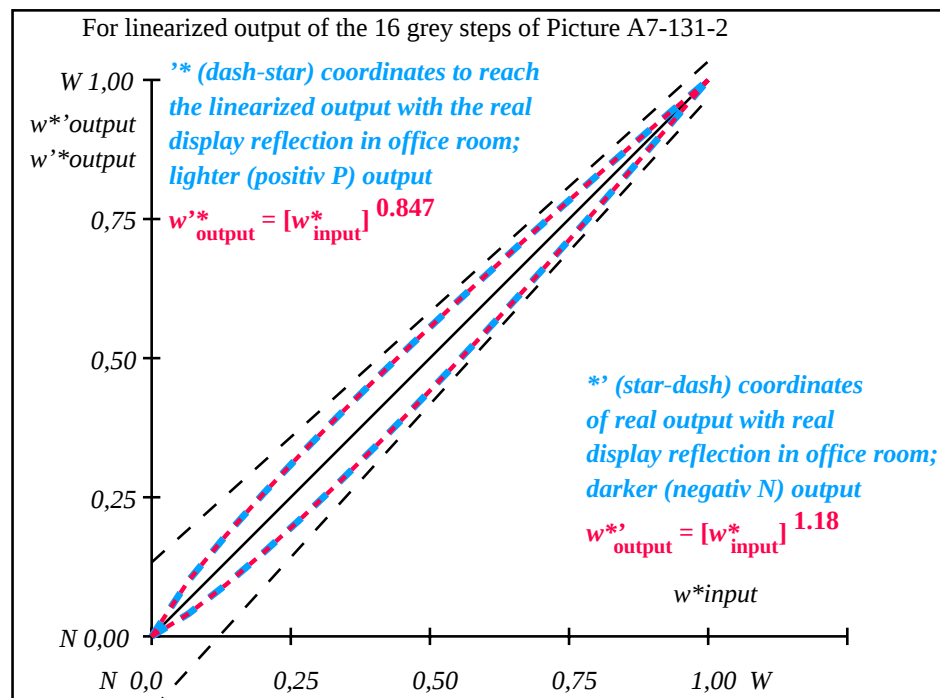
Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G

Mean lightness difference (16 steps) $\Delta E^*_{\text{CIELAB}} = 3.4$

Mean lightness difference (5 steps) $\Delta L^*_{\text{CIELAB}} = 2.7$

Mean colour reproduction index: $R^*_{\text{ab,m}} = 85$

OE610-3N-131-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE611-3N-131-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

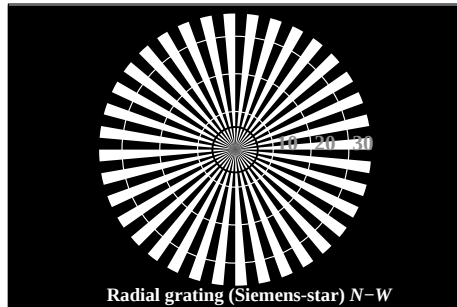
$L^*/Y^*_{\text{intended}}$ (absolute)	5.7/0.6	11.7/1.4	17.7/2.4	23.6/4.0	29.6/6.1	35.6/8.8	41.6/12.2	47.6/16.5	53.5/21.5	59.5/27.6	65.5/34.7	71.5/42.9	77.5/52.3	83.4/63.0	89.4/75.1	95.4/88.6
$w^* w^* w^*$ setrgb $g_p=0.85$ No. and Hex code	00;F	01;E	02;D	03;C	04;B	05;A	06;9	07;8	08;7	09;6	10;5	11;4	12;3	13;2	14;1	15;0
$w^* = [L^*_{\text{CIELAB}}]^r$ (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	0.101	0.181	0.256	0.327	0.394	0.46	0.467	0.533	0.600	0.667	0.733	0.800	0.867	0.933	1.000

OE610-7N, Picture A7-131-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^*$ setrgbcolor

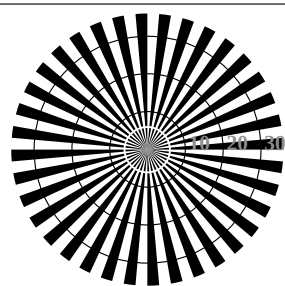
OE61: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:0,62$; Y_N range 0,46 to <0,93

input: w ($\rightarrow \text{rgb}^*_{\text{de}}$) setgray
output 131-2: $g_p=0.92$; $g_N=1.0$

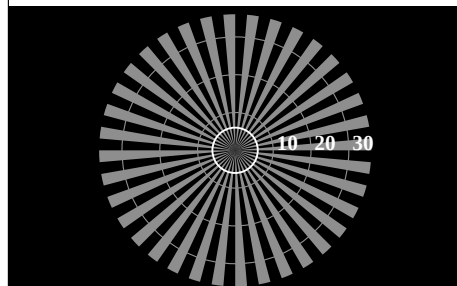
See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



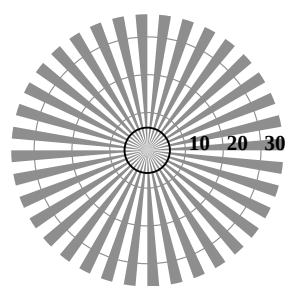
Radial grating (Siemens-star) N-W



Radial grating (Siemens-star) W-N

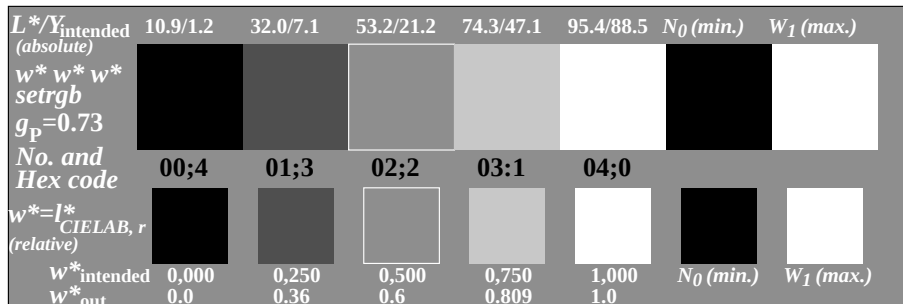


Radial grating (Siemens-star) N-Z

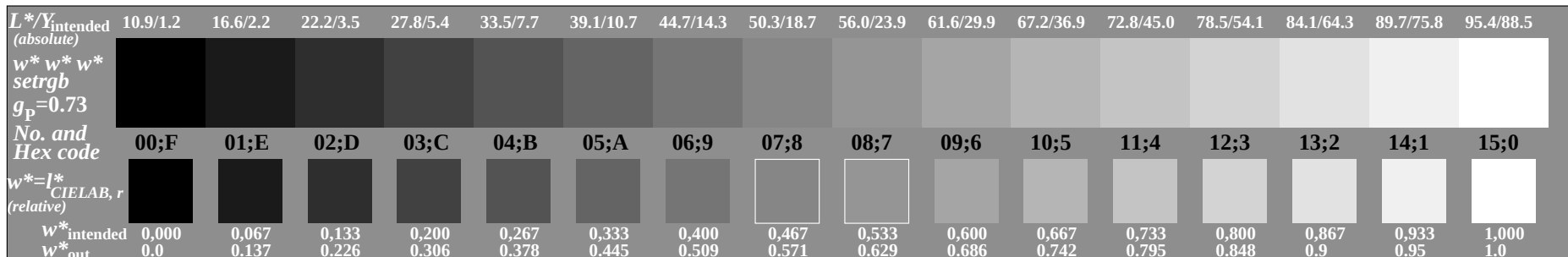


Radial grating (Siemens-star) W-Z

OE610-3N, Picture A1-132-0: Radial grating N-W, W-N, N-Z, W-Z; PS operator: $w^* w^* w^* \text{setrgbcolor}$



OE610-5N, Picture A2-132-0: 5 equidistant L^* -grey steps+ N_0 + W_1 ; PS operator: $w^* w^* w^* \text{setrgbcolor}$



OE610-7N, Picture A3-132-0: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^* \text{setrgbcolor}$

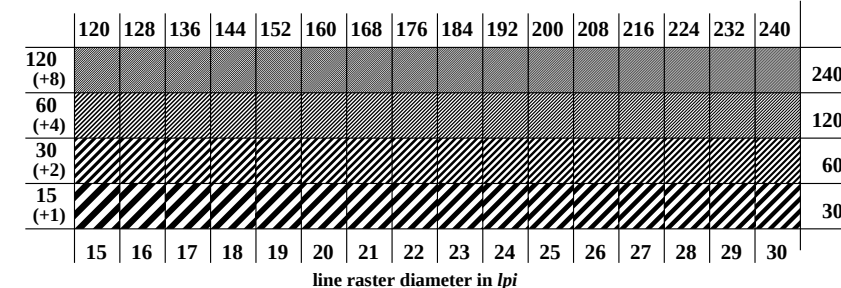
OE61: similar ME16 according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:1,25$; Y_N range 0,93 to <1,87

background step 0		1	ring step	0-1
Hex code		8	Hex code	7-8
7		F		E-F
E		0		2-0
2		6		8-6
8		D		F-D
F				

Landolt-rings W-N

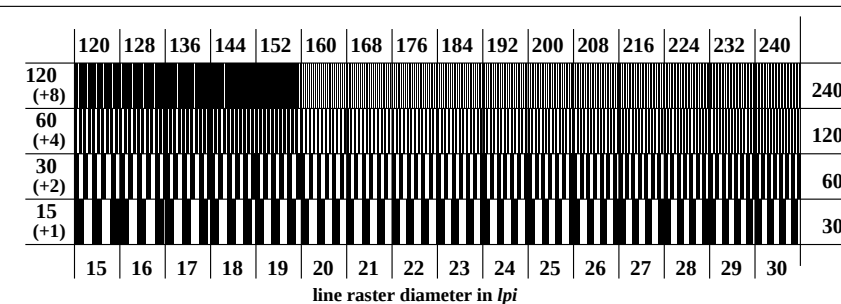
code: background-ring

OE611-1N, Picture A4-132-0: Landolt-rings W-N; PS operator: $w^* w^* w^* \text{setrgbcolor}$



line raster diameter in lpi

OE611-3N, Picture A5-132-0: Line raster under 45° (or 135°); PS operator: $w^* w^* w^* \text{setrgbcolor}$

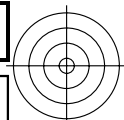
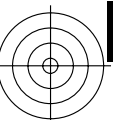


line raster diameter in lpi

OE611-5N, Picture A6-132-0: Line raster under 90° (or 0°); PS operator: $w^* w^* w^* \text{setrgbcolor}$

input: w ($\rightarrow \text{rgb}^*_{\text{de}}$) setgray
output 132-0: $g_p=0.85$; $g_N=1.0$

TUB registration: 20110801-OE61/OE61L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta



TUB registration: 20110801-OE61/OE61L0NA.TXT /.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 A7-132-0	Yes/No
Output test with the computer display () or the external display ()	
Test of the <i>Landolt</i>-rings <i>N-W</i> according to picture A4-132-0	
<i>N-W</i>-radial grating:	
Is the recognition frequency of the <i>Landolt</i> -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 A5-132-0	
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 A6-132-0	
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

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:

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

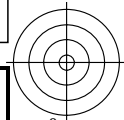
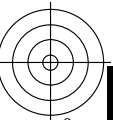
Office workplace illumination is daylight (clouded/north sky)
PDF file: <http://130.149.60.45/farbmatrik/OE61/OE61F1P2.PDF>
PS file: <http://130.149.60.45/farbmatrik/OE61/OE61F1P2.PS>
Picture A7-132-2: contrast range: (>F:0) (F:0) (E:0) (D:0) (C:0) (A:0) (9:0) (7:0) (5:0) (3:0) (<3:0)
 compare standard print output according to ISO/IEC 15775 with range F:0
*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/farbmatrik/OE61/OE61F1P2.PDF>
picture A7-132-2
PS-File: <http://130.149.60.45/farbmatrik/OE61/OE61F1P2.PS>
picture A7-132-2

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



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, CIELAB

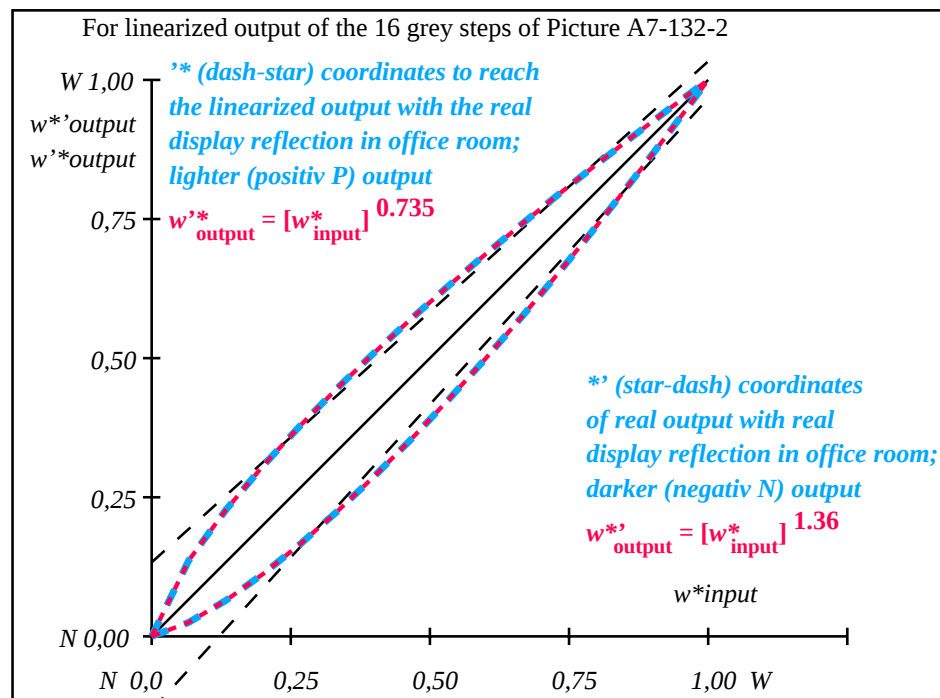
i	LAB*ref	L*out	LAB*out	LAB*out/c-ref	ΔE*	Start output S1
1	10.99	0.0	0.0	10.99	0.0	0.0
2	16.62	0.0	0.14	22.52	0.0	0.0
3	22.25	0.0	0.23	30.18	0.0	0.0
4	27.88	0.0	0.31	36.84	0.0	0.0
5	33.5	0.0	0.38	42.93	0.0	0.0
6	39.13	0.0	0.45	48.63	0.0	0.0
7	44.76	0.0	0.51	54.03	0.0	0.0
8	50.39	0.0	0.57	59.19	0.0	0.0
9	56.02	0.0	0.63	64.17	0.0	0.0
10	61.64	0.0	0.69	68.98	0.0	0.0
11	67.27	0.0	0.74	73.65	0.0	0.0
12	72.9	0.0	0.8	78.2	0.0	0.0
13	78.53	0.0	0.85	82.64	0.0	0.0
14	84.15	0.0	0.9	86.98	0.0	0.0
15	89.78	0.0	0.95	91.23	0.0	0.0
16	95.41	0.0	1.0	95.41	0.0	0.0
17	10.99	0.0	0.0	10.99	0.0	0.0
18	32.1	0.0	0.36	41.45	0.0	0.0
19	53.2	0.0	0.6	61.7	0.0	0.0
20	74.31	0.0	0.81	79.32	0.0	0.0
21	95.41	0.0	1.0	95.41	0.0	0.0

Mean lightness difference (16 steps) $\Delta E^*_{\text{CIELAB}} = 6.0$

Mean lightness difference (5 steps) $\Delta E^*_{\text{CIELAB}} = 4.6$

Mean colour reproduction index: $R^*_{\text{ab,m}} = 74$

OE610-3N-132-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE611-3N-132-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

$L^*/Y^*_{\text{intended}}$ (absolute)	11.0/1.3	16.6/2.2	22.2/3.6	27.9/5.4	33.5/7.8	39.1/10.7	44.8/14.4	50.4/18.7	56.0/23.9	61.6/30.0	67.3/37.0	72.9/45.0	78.5/54.1	84.2/64.4	89.8/75.8	95.4/88.6
$w^* w^* w^*$ setrgb $g_p=0.74$ 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
$w^* = [L^*_{\text{CIELAB}, r}]$ (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	0.137	0.227	0.306	0.379	0.446	0.51	0.467	0.533	0.600	0.667	0.733	0.800	0.867	0.933	1.000

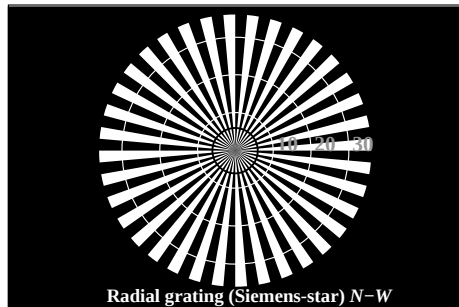
OE610-7N, Picture A7-132-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^*$ setrgbcolor

OE61: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:1,25$; Y_N range 0,93 to <1,87

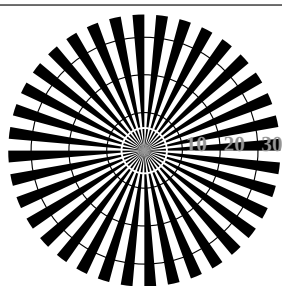
input: w ($\rightarrow \text{rgb}^*_{\text{de}}$) setgray
output 132-2: $g_p=0.85$; $g_N=1.0$

TUB registration: 20110801-OE61/OE61L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta

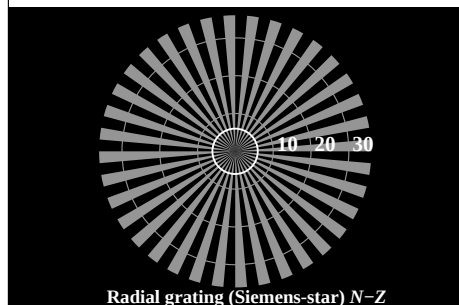
See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



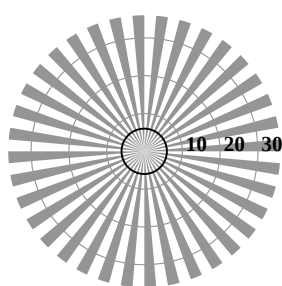
Radial grating (Siemens-star) N-W



Radial grating (Siemens-star) W-N

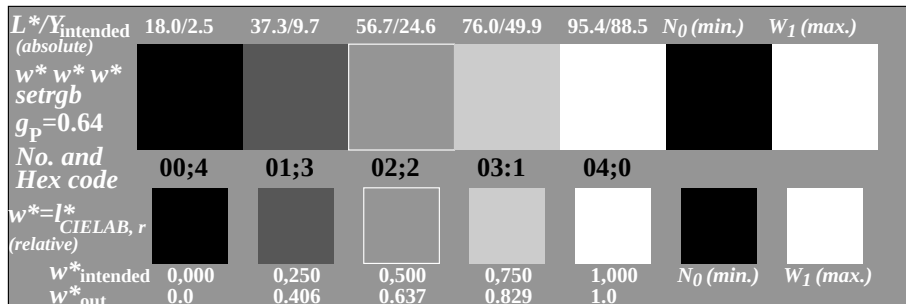


Radial grating (Siemens-star) N-Z

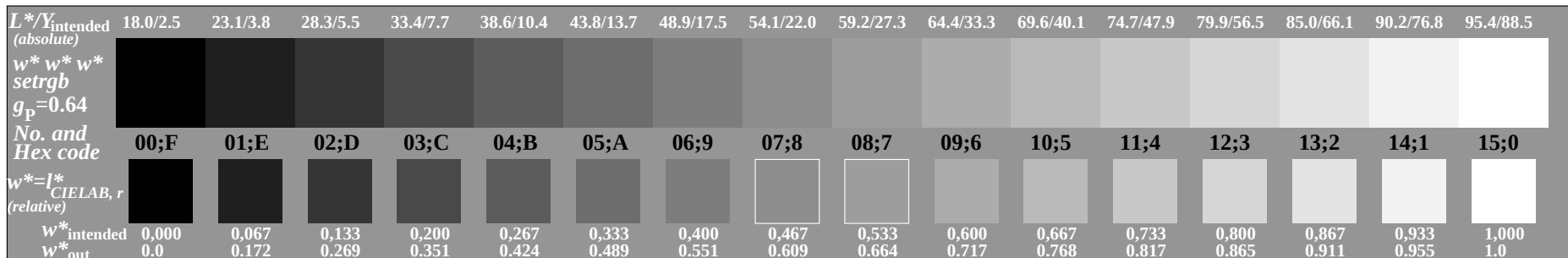


Radial grating (Siemens-star) W-Z

OE610-3N, Picture A1-133-0: Radial grating N-W, W-N, N-Z, W-Z; PS operator: $w^* w^* w^* \text{setrgbcolor}$



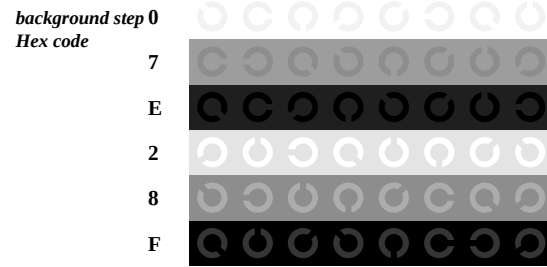
OE610-5N, Picture A2-133-0: 5 equidistant L^* -grey steps+ N_0 + W_1 ; PS operator: $w^* w^* w^* \text{setrgbcolor}$



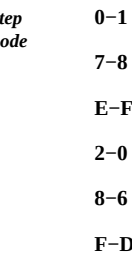
OE610-7N, Picture A3-133-0: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^* \text{setrgbcolor}$

OE61: similar ME16 according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:2,5$; Y_N range 1,87 to <3,75

input: $w (->rgb^*_{de}) \text{setgray}$
output 133-0: $g_p=0.77$; $g_N=1.0$

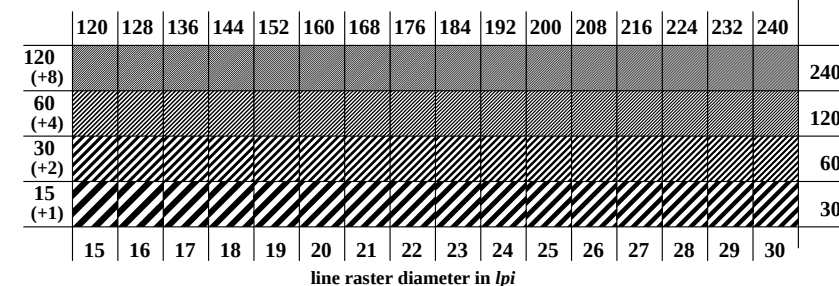


Landolt-rings W-N



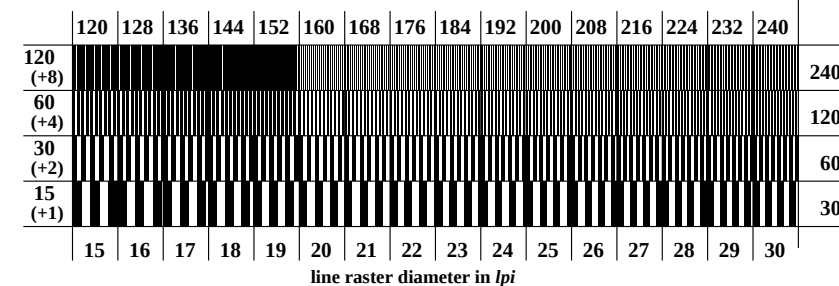
code: background-ring

OE611-1N, Picture A4-133-0: Landolt-rings W-N; PS operator: $w^* w^* w^* \text{setrgbcolor}$



line raster diameter in lpi

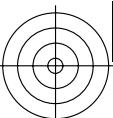
OE611-3N, Picture A5-133-0: Line raster under 45° (or 135°); PS operator: $w^* w^* w^* \text{setrgbcolor}$



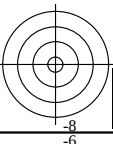
line raster diameter in lpi

OE611-5N, Picture A6-133-0: Line raster under 90° (or 0°); PS operator: $w^* w^* w^* \text{setrgbcolor}$

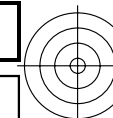
TUB registration: 20110801-OE61/OE61L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta



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, CIELAB

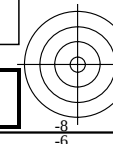


<http://130.149.60.45/~farbmetrik/OE61/OE61L0NA.TXT> / .PS; linearized output, Page 2/3
 F: Output Linearization (OL) data OE61/OE61L0NA.TXT / .PS in File (F)



TUB registration: 20110801-OE61/OE61L0NA.TXT / .PS
 application for output of displays: monitor systems or data projector systems

TUB material: code=rh4ta



Test for the best visual linearized output of Picture A7-133-0 Yes/No
Output test with the computer display () or the external display ()

Test of the radial grating according to picture A1-133-0

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 A2-133-0

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 A3-133-0

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

OE610-3N-133-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE61/OE61L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE61/OE61L0NA.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 OE61L0NP.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 OE61L0NA.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

OE610-7N-133-1



OE61: Form A for test chart according to ISO 9241-306; 1MR, DEHinput: w (->rgb*_{de}) setgray
 Viewing Y contrast Y_W:Y_N=88,9:2,5; Y_N range 1,87 to <3,75 output 133-1: g_P=0,77; g_N=1.0

Test for the best visual linearized output of Picture A7-133-0 Yes/No
Output test with the computer display () or the external display ()

Test of the Landolt-rings N-W according to picture A4-133-0

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 A5-133-0

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 A6-133-0

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

OE611-3N-133-1

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:

underline Yes/No
 underline Yes/unknown
 underline Yes/unknown
 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/OE61/OE61F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE61/OE61F1P2.PS>

underline Yes/No

Picture A7-133-2: 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/OE61/OE61F1P2.PDF>

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE61/OE61F1P2.PS>

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

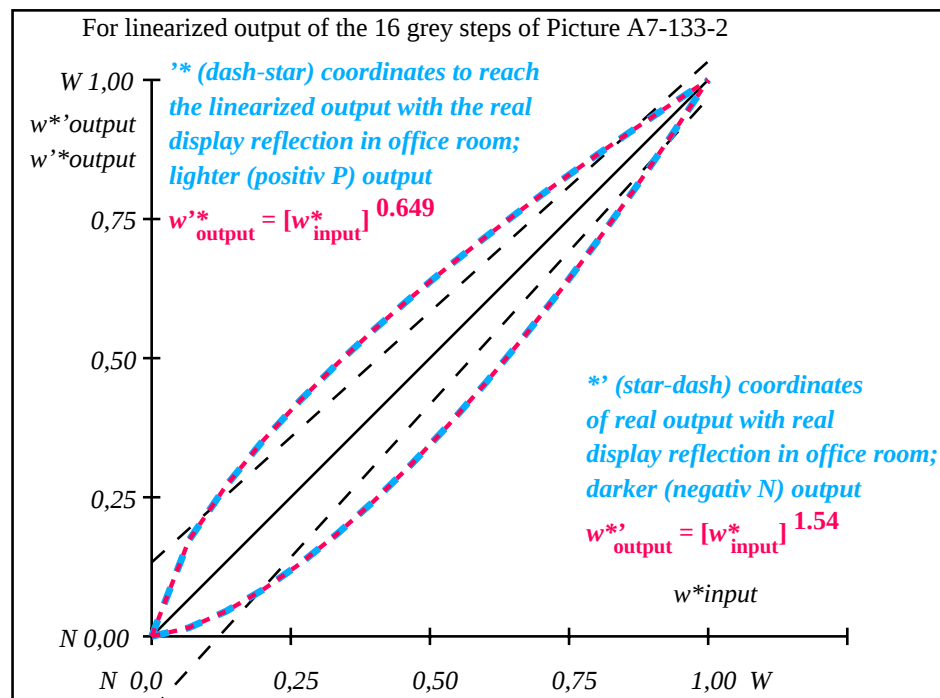
OE611-7N-133-1



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, CIELAB

i	LAB*ref	L*out	LAB*out	LAB*out/c-ref	ΔE*	Start output S1
1	18.01 0.0 0.0	0.0 0.0 0.0	18.01 0.0 0.0	0.0 0.0 0.0	0.01	Specification according to
2	23.17 0.0 0.0	0.17 31.35 0.0	0.0 8.18 0.0	0.0 8.18 0.0	8.18	ISO/IEC 15775 Annex G
3	28.33 0.0 0.0	0.27 38.93 0.0	0.0 10.6 0.0	0.0 10.6 0.0	10.6	and DIN 33866-1 Annex G
4	33.49 0.0 0.0	0.35 45.23 0.0	0.0 11.74 0.0	0.0 11.74 0.0	11.74	
5	38.65 0.0 0.0	0.42 50.82 0.0	0.0 12.17 0.0	0.0 12.17 0.0	12.17	
6	43.81 0.0 0.0	0.49 55.93 0.0	0.0 12.12 0.0	0.0 12.12 0.0	12.12	
7	48.97 0.0 0.0	0.55 60.7 0.0	0.0 11.73 0.0	0.0 11.73 0.0	11.73	
8	54.13 0.0 0.0	0.61 65.2 0.0	0.0 11.07 0.0	0.0 11.07 0.0	11.07	
9	59.29 0.0 0.0	0.66 69.47 0.0	0.0 10.18 0.0	0.0 10.18 0.0	10.18	
10	64.45 0.0 0.0	0.72 73.56 0.0	0.0 9.11 0.0	0.0 9.11 0.0	9.11	
11	69.61 0.0 0.0	0.77 77.49 0.0	0.0 7.88 0.0	0.0 7.88 0.0	7.88	
12	74.77 0.0 0.0	0.82 81.29 0.0	0.0 6.52 0.0	0.0 6.52 0.0	6.52	
13	79.93 0.0 0.0	0.87 84.97 0.0	0.0 5.04 0.0	0.0 5.04 0.0	5.04	
14	85.09 0.0 0.0	0.91 88.54 0.0	0.0 3.45 0.0	0.0 3.45 0.0	3.45	
15	90.25 0.0 0.0	0.96 92.02 0.0	0.0 1.77 0.0	0.0 1.77 0.0	1.77	Mean lightness difference (16 steps)
16	95.41 0.0 0.0	1.0 95.41 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.01	ΔE*CIELAB = 7.6
17	18.01 0.0 0.0	0.0 18.01 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.01	
18	37.36 0.0 0.0	0.41 49.47 0.0	0.0 12.11 0.0	0.0 12.11 0.0	12.11	
19	56.71 0.0 0.0	0.64 67.36 0.0	0.0 10.65 0.0	0.0 10.65 0.0	10.65	
20	76.06 0.0 0.0	0.83 82.22 0.0	0.0 6.16 0.0	0.0 6.16 0.0	6.16	Mean lightness difference (5 steps)
21	95.41 0.0 0.0	1.0 95.41 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.01	ΔL*CIELAB = 5.8
Mean colour reproduction index:					R* _{ab,m} = 67	

OE610-3N-133-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE611-3N-133-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

L*/Y _{intended} (absolute)	18.0/2.5	23.2/3.8	28.3/5.6	33.5/7.8	38.6/10.5	43.8/13.7	49.0/17.6	54.1/22.1	59.3/27.3	64.4/33.4	69.6/40.2	74.8/47.9	79.9/56.6	85.1/66.2	90.2/76.8	95.4/88.6
w* w* w* setrgb																
g _p =0.65																
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*=[*] CIELAB, r (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	0,173	0,27	0,352	0,424	0,49	0,552	0,61	0,665	0,718	0,769	0,817	0,865	0,911	0,956	1,0

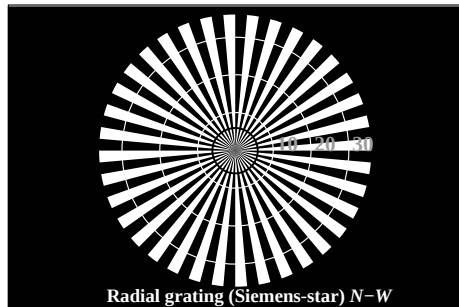
OE610-7N, Picture A7-133-2: 16 visual equidistant L*-grey steps; PS operator: w* w* w* setrgbcolor

OE61: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast Y_W:Y_N=88,9:2,5; Y_N range 1,87 to <3,75

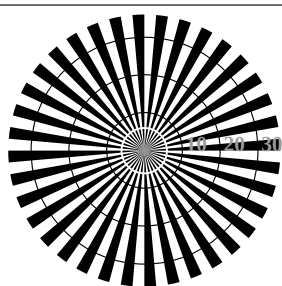
input: w (->rgb*_{de}) setgray
output 133-2: g_p=0.77; g_N=1.0

TUB registration: 20110801-OE61/OE61L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta

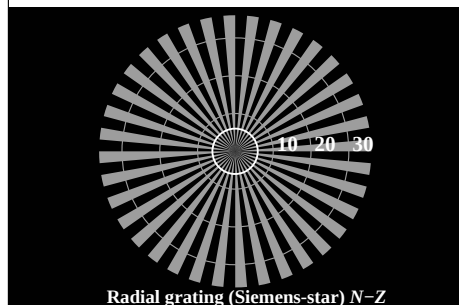
See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



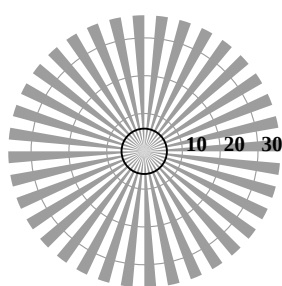
Radial grating (Siemens-star) N-W



Radial grating (Siemens-star) W-N

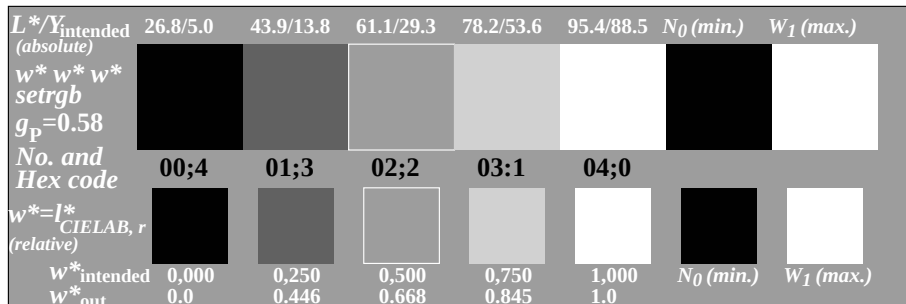


Radial grating (Siemens-star) N-Z

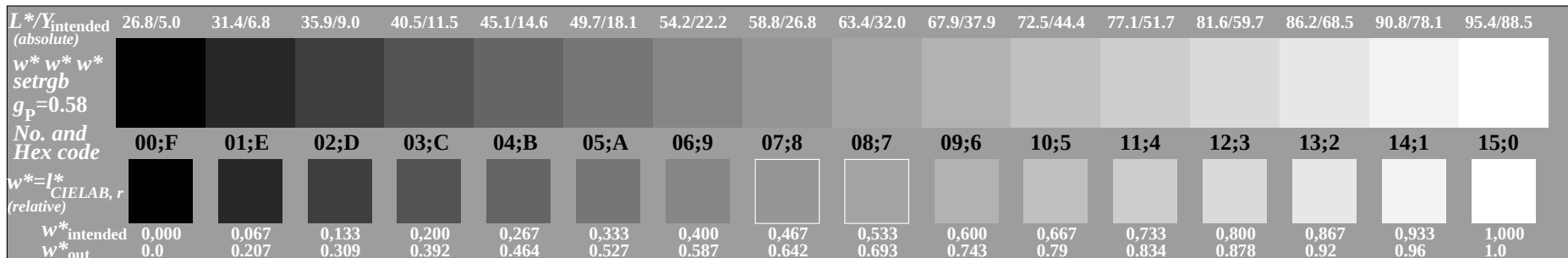


Radial grating (Siemens-star) W-Z

OE610-3N, Picture A1-134-0: Radial grating N-W, W-N, N-Z, W-Z; PS operator: $w^* w^* w^* \text{setrgbcolor}$



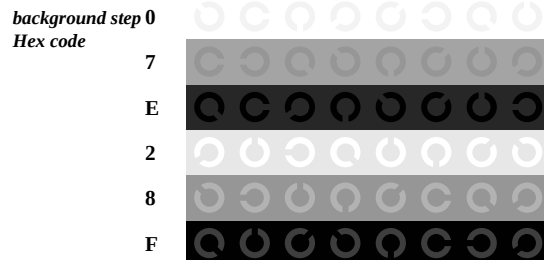
OE610-5N, Picture A2-134-0: 5 equidistant L^* -grey steps+ N_0 + W_1 ; PS operator: $w^* w^* w^* \text{setrgbcolor}$



OE610-7N, Picture A3-134-0: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^* \text{setrgbcolor}$

OE61: similar ME16 according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:5$; Y_N range 3,75 to <7,5

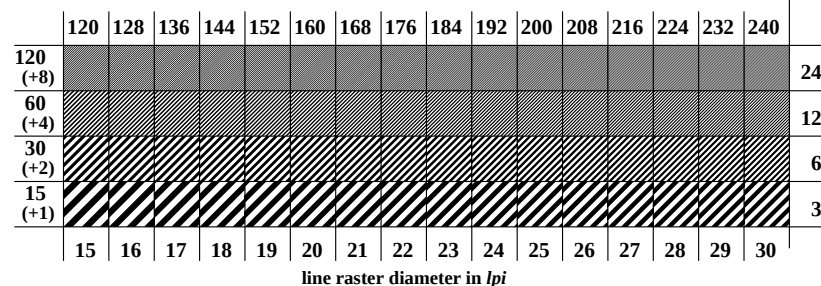
input: w ($\rightarrow \text{rgb}^*_{\text{de}}$) setgray
output 134-0: $g_p=0.7$; $g_N=1.0$



Landolt-rings W-N

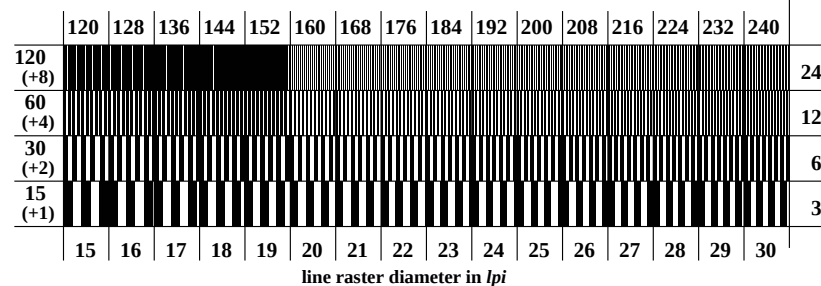
code: background-ring

OE611-1N, Picture A4-134-0: Landolt-rings W-N; PS operator: $w^* w^* w^* \text{setrgbcolor}$



line raster diameter in lpi

OE611-3N, Picture A5-134-0: Line raster under 45° (or 135°); PS operator: $w^* w^* w^* \text{setrgbcolor}$



line raster diameter in lpi

OE611-5N, Picture A6-134-0: Line raster under 90° (or 0°); PS operator: $w^* w^* w^* \text{setrgbcolor}$

TUB registration: 20110801-OE61/OE61L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta

Part 1

OE610-3N-134-1

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.....

.....

Part 3

OE610-7N-134-1

Part 2

OE611-3N-134-1

Part 4

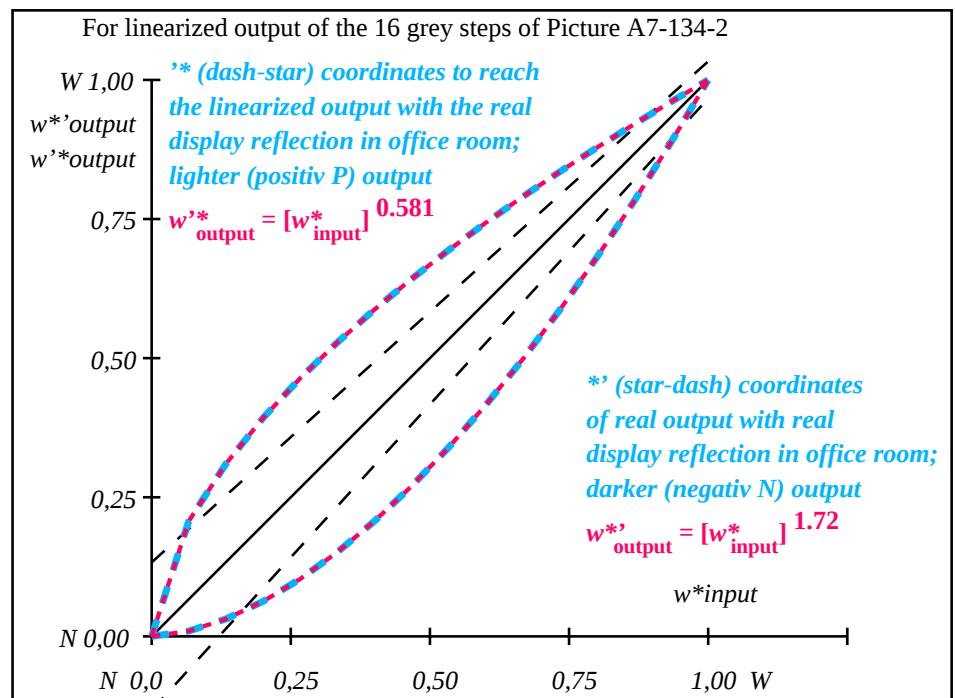
OE611-7N-134-1

output 134-1: $q_P=0.7$; $q_N=1.0$

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, CIELAB

i	LAB*ref			L*out			LAB*out			LAB*out/c-ref			ΔE*	Start output S1
1	26.85	0.0	0.0	0.0	26.85	0.0	0.0	0.0	0.0	0.0	0.0	0.01	Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G	
2	31.42	0.0	0.0	0.21	41.05	0.0	0.0	9.63	0.0	0.0	9.63			
3	35.99	0.0	0.0	0.31	48.1	0.0	0.0	12.11	0.0	0.0	12.11			
4	40.56	0.0	0.0	0.39	53.75	0.0	0.0	13.18	0.0	0.0	13.18			
5	45.13	0.0	0.0	0.46	58.64	0.0	0.0	13.51	0.0	0.0	13.51			
6	49.7	0.0	0.0	0.53	63.05	0.0	0.0	13.34	0.0	0.0	13.34			
7	54.27	0.0	0.0	0.59	67.09	0.0	0.0	12.82	0.0	0.0	12.82			
8	58.84	0.0	0.0	0.64	70.87	0.0	0.0	12.02	0.0	0.0	12.02			
9	63.41	0.0	0.0	0.69	74.42	0.0	0.0	11.01	0.0	0.0	11.01			
10	67.99	0.0	0.0	0.74	77.79	0.0	0.0	9.81	0.0	0.0	9.81			
11	72.56	0.0	0.0	0.79	81.01	0.0	0.0	8.46	0.0	0.0	8.46			
12	77.13	0.0	0.0	0.84	84.1	0.0	0.0	6.97	0.0	0.0	6.97			
13	81.7	0.0	0.0	0.88	87.07	0.0	0.0	5.37	0.0	0.0	5.37			
14	86.27	0.0	0.0	0.92	89.94	0.0	0.0	3.67	0.0	0.0	3.67			
15	90.84	0.0	0.0	0.96	92.71	0.0	0.0	1.88	0.0	0.0	1.88	Mean lightness difference (16 steps)		
16	95.41	0.0	0.0	1.0	95.41	0.0	0.0	0.0	0.0	0.0	0.01	ΔE*CIELAB = 8.4		
17	26.85	0.0	0.0	0.0	26.85	0.0	0.0	0.0	0.0	0.0	0.01			
18	43.99	0.0	0.0	0.45	57.47	0.0	0.0	13.48	0.0	0.0	13.48			
19	61.13	0.0	0.0	0.67	72.67	0.0	0.0	11.54	0.0	0.0	11.54			
20	78.27	0.0	0.0	0.85	84.85	0.0	0.0	6.58	0.0	0.0	6.58	Mean lightness difference (5 steps)		
21	95.41	0.0	0.0	1.0	95.41	0.0	0.0	0.0	0.0	0.0	0.01	ΔL*CIELAB = 6.3		
Mean colour reproduction index:												R* _{ab,m} = 64		

OE610-3N-134-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE611-3N-134-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

L^*/Y_{intended} (absolute)	26.8/5.0	31.4/6.8	36.0/9.0	40.6/11.6	45.1/14.6	49.7/18.2	54.3/22.2	58.8/26.9	63.4/32.1	68.0/38.0	72.6/44.5	77.1/51.7	81.7/59.7	86.3/68.5	90.8/78.1	95.4/88.6
$w^* w^* w^*$ setrgb $g_p=0.58$ 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
$w^* = [L^*_{\text{CIELAB}, r}]$ (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	0.067	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

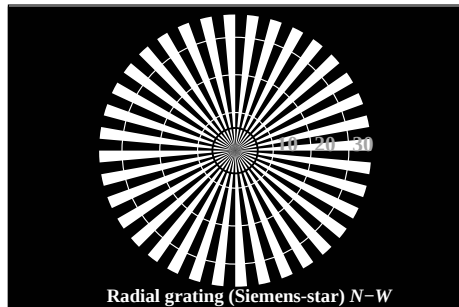
OE610-7N, Picture A7-134-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^*$ setrgbcolor

OE61: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:5$; Y_N range 3,75 to <7,5

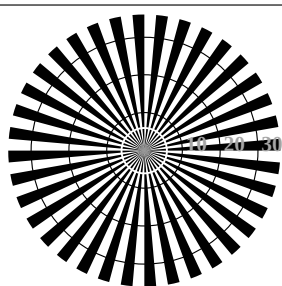
input: $w (->rgb^*_{de})$ setgray
output 134-2: $g_p=0.7$; $g_N=1.0$

TUB registration: 20110801-OE61/OE61L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta

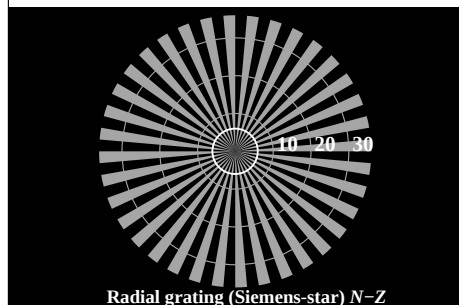
See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



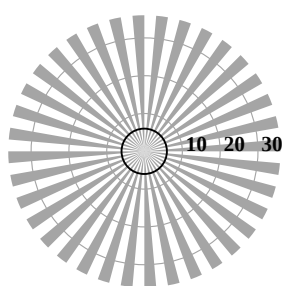
Radial grating (Siemens-star) N-W



Radial grating (Siemens-star) W-N

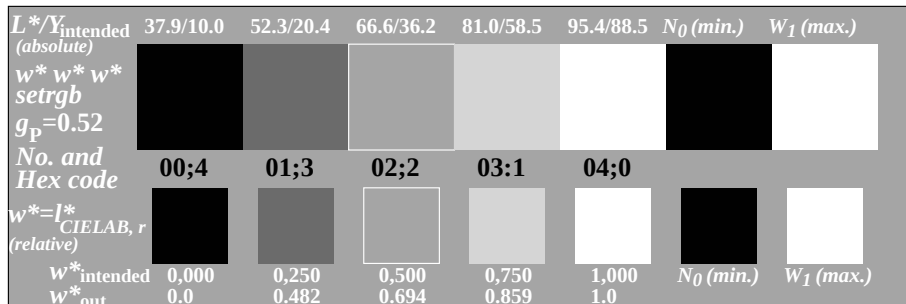


Radial grating (Siemens-star) N-Z

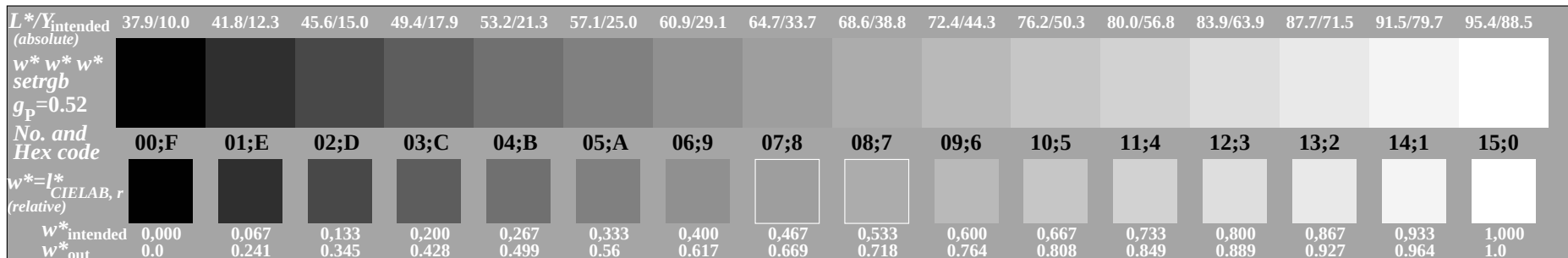


Radial grating (Siemens-star) W-Z

OE610-3N, Picture A1-135-0: Radial grating N-W, W-N, N-Z, W-Z; PS operator: $w^*w^*w^*$ setrgbcolor



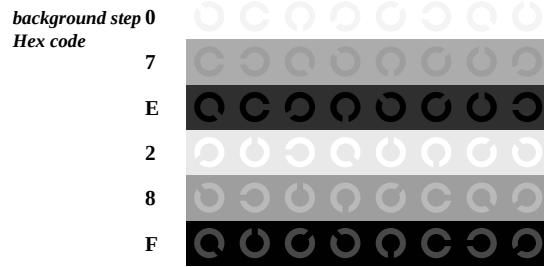
OE610-5N, Picture A2-135-0: 5 equidistant L^* -grey steps+ N_0 + W_1 ; PS operator: $w^*w^*w^*$ setrgbcolor



OE610-7N, Picture A3-135-0: 16 visual equidistant L^* -grey steps; PS operator: $w^*w^*w^*$ setrgbcolor

OE61: similar ME16 according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:10$; Y_N range 7,5 to <15

input: w ($\rightarrow rgb^*_{de}$) setgray
output 135-0: $g_p=0.62$; $g_N=1.0$

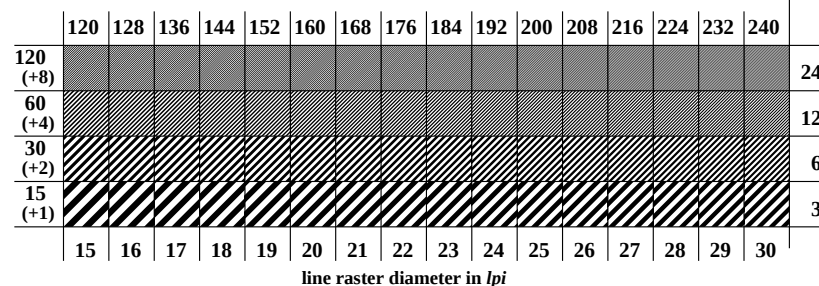


Landolt-rings W-N

background step 0	1	ring step	0-1
Hex code	Hex code	Hex code	Hex code
7	8	7-8	
E	F	E-F	
2	0	2-0	
8	6	8-6	
F	D	F-D	

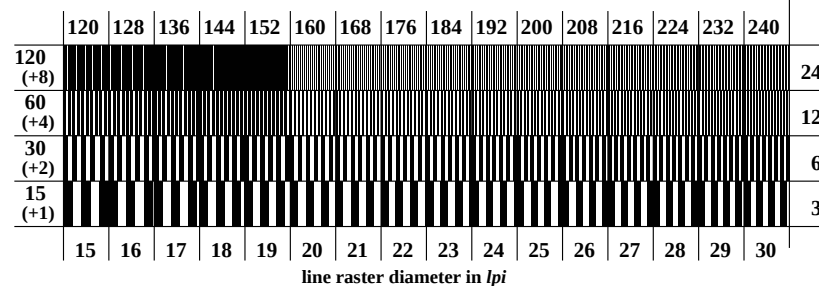
code: background-ring

OE611-1N, Picture A4-135-0: Landolt-rings W-N; PS operator: $w^*w^*w^*$ setrgbcolor



line raster diameter in lpi

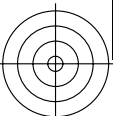
OE611-3N, Picture A5-135-0: Line raster under 45° (or 135°); PS operator: $w^*w^*w^*$ setrgbcolor



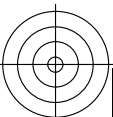
line raster diameter in lpi

OE611-5N, Picture A6-135-0: Line raster under 90° (or 0°); PS operator: $w^*w^*w^*$ setrgbcolor

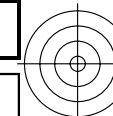
TUB registration: 20110801-OE61/OE61L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta



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, CIELAB

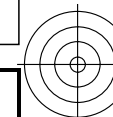


<http://130.149.60.45/~farbmetrik/OE61/OE61L0NA.TXT> /PS; linearized output, Page 2/3
 F: Output Linearization (OL) data OE61/OE61L0NA.TXT /PS in File (F)



TUB registration: 20110801-OE61/OE61L0NA.TXT /PS
 application for output of displays: monitor systems or data projector systems

TUB material: code=rh4ta



Test for the best visual linearized output of Picture A7-135-0 Yes/No
Output test with the computer display () or the external display ()

Test of the radial grating according to picture A1-135-0

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 A2-135-0

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 A3-135-0

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

OE610-3N-135-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE61/OE61L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE61/OE61L0NA.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 OE61L0NP.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 OE61L0NA.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

OE610-7N-135-1



OE61: Form A for test chart according to ISO 9241-306; 1MR, DEHinput: w (->rgb*_{de}) setgray
 Viewing Y contrast $Y_W:Y_N=88,9:10$; Y_N range 7,5 to <15
 output 135-1: $g_P=0.62$; $g_N=1.0$

Test for the best visual linearized output of Picture A7-135-0 Yes/No
Output test with the computer display () or the external display ()

Test of the Landolt-rings N-W according to picture A4-135-0

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 A5-135-0

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 A6-135-0

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

OE611-3N-135-1

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:

underline Yes/No
 underline Yes/unknown
 underline Yes/unknown
 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/OE61/OE61F1P2.PDF>

underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE61/OE61F1P2.PS>

underline Yes/No

Picture A7-135-2: 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/OE61/OE61F1P2.PDF>

underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE61/OE61F1P2.PS>

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

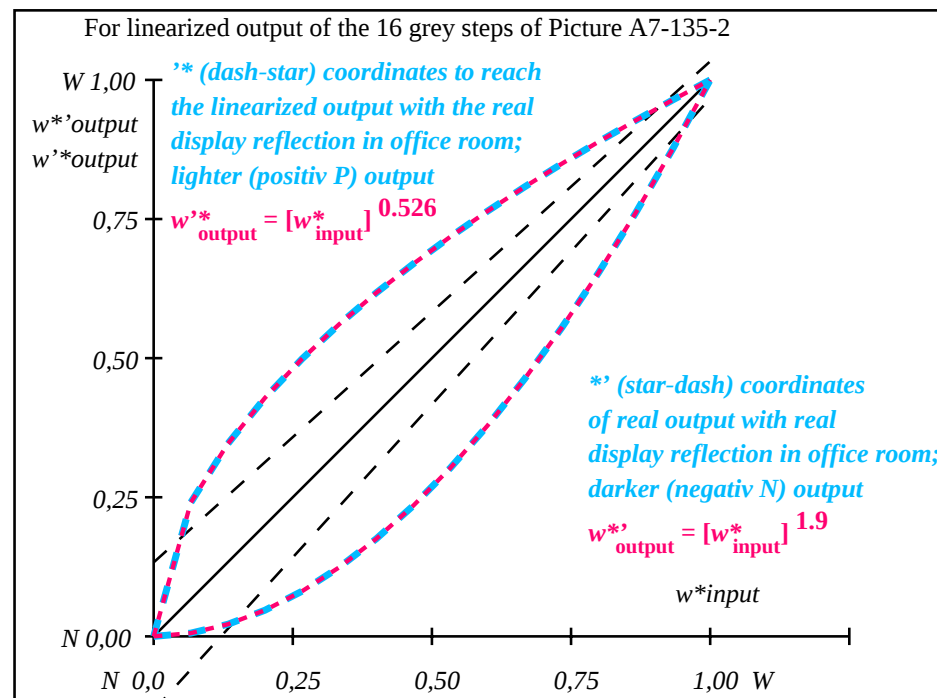
OE611-7N-135-1



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, CIELAB

i	LAB*ref	L*out	LAB*out	LAB*out/c-ref	ΔE*	Start output S1
1	37.99 0.0 0.0	0.0 0.0 0.0	37.99 0.0 0.0	0.0 0.0 0.0	0.01	Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G
2	41.81 0.0 0.0	0.24 51.79 0.0	0.0 9.98 0.0	0.0 9.98 0.0	9.98	
3	45.64 0.0 0.0	0.35 57.87 0.0	0.0 12.23 0.0	0.0 12.23 0.0	12.23	
4	49.47 0.0 0.0	0.43 62.6 0.0	0.0 13.13 0.0	0.0 13.13 0.0	13.13	
5	53.3 0.0 0.0	0.5 66.63 0.0	0.0 13.33 0.0	0.0 13.33 0.0	13.33	
6	57.13 0.0 0.0	0.56 70.19 0.0	0.0 13.07 0.0	0.0 13.07 0.0	13.07	
7	60.96 0.0 0.0	0.62 73.44 0.0	0.0 12.48 0.0	0.0 12.48 0.0	12.48	
8	64.78 0.0 0.0	0.67 76.44 0.0	0.0 11.65 0.0	0.0 11.65 0.0	11.65	
9	68.61 0.0 0.0	0.72 79.23 0.0	0.0 10.62 0.0	0.0 10.62 0.0	10.62	
10	72.44 0.0 0.0	0.76 81.87 0.0	0.0 9.43 0.0	0.0 9.43 0.0	9.43	
11	76.27 0.0 0.0	0.81 84.37 0.0	0.0 8.11 0.0	0.0 8.11 0.0	8.11	
12	80.1 0.0 0.0	0.85 86.76 0.0	0.0 6.66 0.0	0.0 6.66 0.0	6.66	
13	83.93 0.0 0.0	0.89 89.05 0.0	0.0 5.12 0.0	0.0 5.12 0.0	5.12	
14	87.75 0.0 0.0	0.93 91.24 0.0	0.0 3.49 0.0	0.0 3.49 0.0	3.49	
15	91.58 0.0 0.0	0.96 93.36 0.0	0.0 1.78 0.0	0.0 1.78 0.0	1.78	Mean lightness difference (16 steps)
16	95.41 0.0 0.0	1.0 95.41 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.01	ΔE*CIELAB = 8.2
17	37.99 0.0 0.0	0.0 37.99 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.01	
18	52.34 0.0 0.0	0.48 65.67 0.0	0.0 13.33 0.0	0.0 13.33 0.0	13.33	
19	66.7 0.0 0.0	0.69 77.86 0.0	0.0 11.16 0.0	0.0 11.16 0.0	11.16	
20	81.05 0.0 0.0	0.86 87.34 0.0	0.0 6.29 0.0	0.0 6.29 0.0	6.29	Mean lightness difference (5 steps)
21	95.41 0.0 0.0	1.0 95.41 0.0	0.0 0.0 0.0	0.0 0.0 0.0	0.01	ΔL*CIELAB = 6.2
Mean colour reproduction index:					R* _{ab,m} = 65	

OE610-3N-135-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE611-3N-135-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

L*/Y _{intended} (absolute)	38.0/10.1	41.8/12.4	45.6/15.0	49.5/18.0	53.3/21.3	57.1/25.1	61.0/29.2	64.8/33.8	68.6/38.8	72.4/44.3	76.3/50.3	80.1/56.9	83.9/63.9	87.8/71.6	91.6/79.8	95.4/88.6
w* w* w* setrgb																
g _p =0.53																
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*=[*] _{CIELAB, r} (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	0,241	0,346	0,429	0,499	0,561	0,617	0,67	0,718	0,764	0,808	0,849	0,889	0,928	0,964	1,0

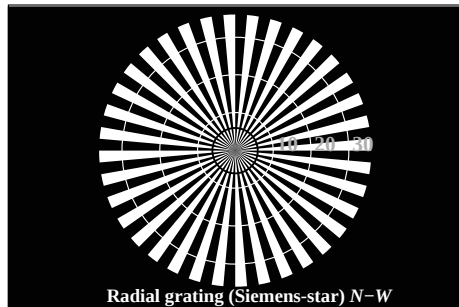
OE610-7N, Picture A7-135-2: 16 visual equidistant L*-grey steps; PS operator: w* w* w* setrgbcolor

OE61: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast Y_W:Y_N=88,9:10; Y_N range 7,5 to <15

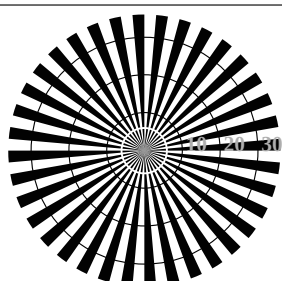
input: w (->rgb*_{de}) setgray
output 135-2: g_p=0.62; g_N=1.0

TUB registration: 20110801-OE61/OE61L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta

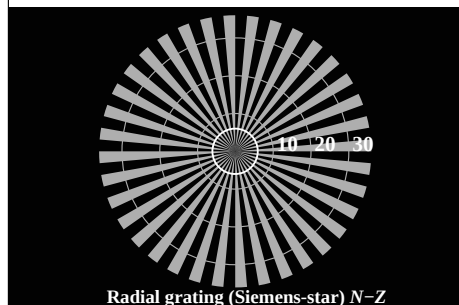
See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



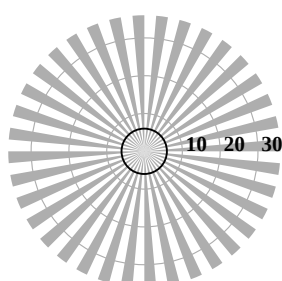
Radial grating (Siemens-star) N-W



Radial grating (Siemens-star) W-N

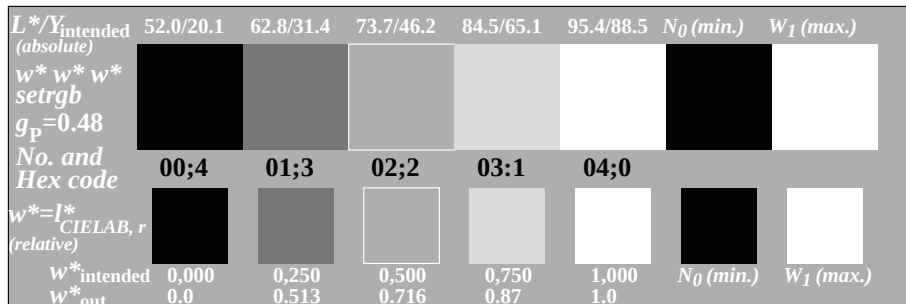


Radial grating (Siemens-star) N-Z

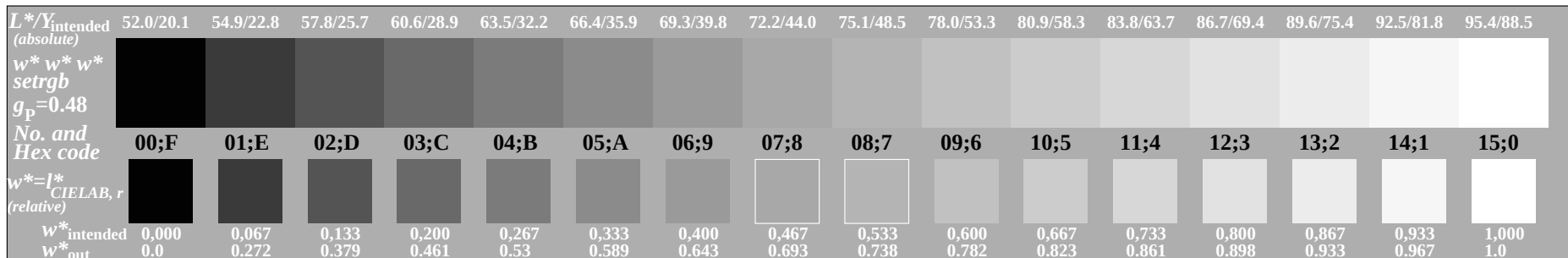


Radial grating (Siemens-star) W-Z

OE610-3N, Picture A1-136-0: Radial grating N-W, W-N, N-Z, W-Z; PS operator: $w^* w^* w^* \text{setrgbcolor}$

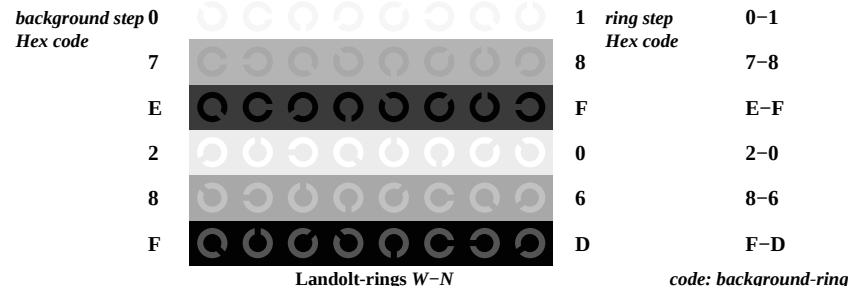


OE610-5N, Picture A2-136-0: 5 equidistant L^* -grey steps+ N_0 + W_1 ; PS operator: $w^* w^* w^* \text{setrgbcolor}$

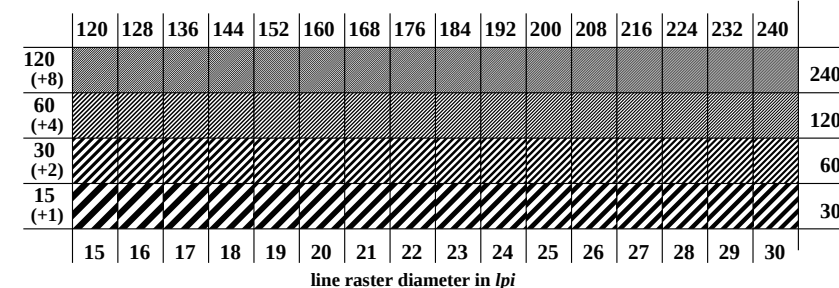


OE610-7N, Picture A3-136-0: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^* \text{setrgbcolor}$

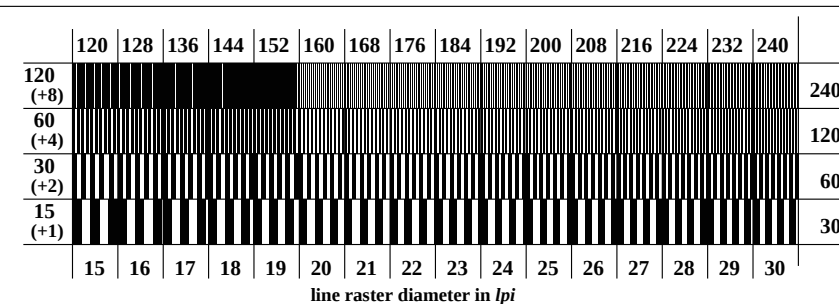
OE61: similar ME16 according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:20$; Y_N range 15 to <30



OE611-1N, Picture A4-136-0: Landolt-rings W-N; PS operator: $w^* w^* w^* \text{setrgbcolor}$



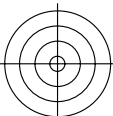
OE611-3N, Picture A5-136-0: Line raster under 45° (or 135°); PS operator: $w^* w^* w^* \text{setrgbcolor}$



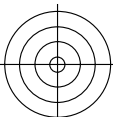
OE611-5N, Picture A6-136-0: Line raster under 90° (or 0°); PS operator: $w^* w^* w^* \text{setrgbcolor}$

input: w ($\rightarrow \text{rgb}^*_{\text{de}}$) setgray
output 136-0: $g_p=0.55$; $g_N=1.0$

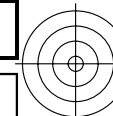
TUB registration: 20110801-OE61/OE61L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta



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, CIELAB

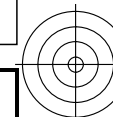


<http://130.149.60.45/~farbmetrik/OE61/OE61L0NA.TXT> /PS; linearized output, Page 2/3
 F: Output Linearization (OL) data OE61/OE61L0NA.TXT /PS in File (F)



TUB registration: 20110801-OE61/OE61L0NA.TXT /PS
 application for output of displays: monitor systems or data projector systems

TUB material: code=rh4ta



Test for the best visual linearized output of Picture A7-136-0 Yes/No
Output test with the computer display () or the external display ()

Test of the radial grating according to picture A1-136-0

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 A2-136-0

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 A3-136-0

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

OE610-3N-136-1

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

PDF-File: <http://130.149.60.45/farbmetrik/OE61/OE61L0NP.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE61/OE61L0NA.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 OE61L0NP.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 OE61L0NA.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

OE610-7N-136-1



OE61: Form A for test chart according to ISO 9241-306; 1MR, DEHinput: w (->rgb*_{de}) setgray
 Viewing Y contrast $Y_W:Y_N=88,9:20$; Y_N range 15 to <30
 output 136-1: $g_P=0.55$; $g_N=1.0$



Test for the best visual linearized output of Picture A7-136-0 Yes/No
Output test with the computer display () or the external display ()

Test of the Landolt-rings N-W according to picture A4-136-0

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 A5-136-0

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 A6-136-0

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

OE611-3N-136-1

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/OE61/OE61F1P2.PDF> underline Yes/No

PS file: <http://130.149.60.45/farbmetrik/OE61/OE61F1P2.PS> underline Yes/No

Picture A7-136-2: 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/OE61/OE61F1P2.PDF> underline Yes/No

PS-File: <http://130.149.60.45/farbmetrik/OE61/OE61F1P2.PS> 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

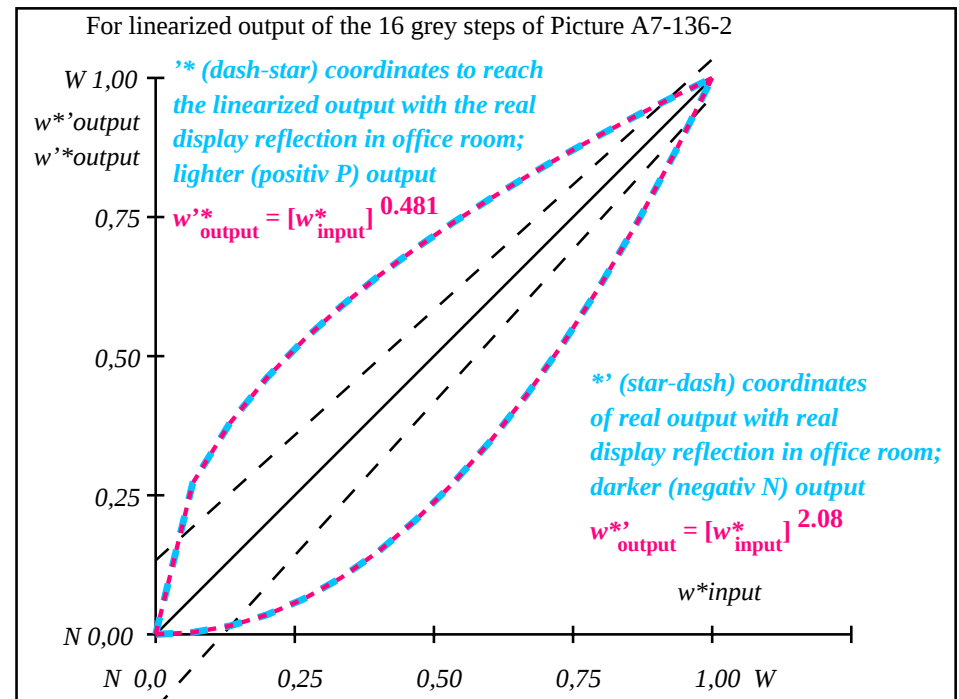
OE611-7N-136-1



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, CIELAB

i	LAB*ref	L*out	LAB*out	LAB*out/c-ref	ΔE*	Start output S1
1	52.02 0.0 0.0	0.0 0.0 0.0	52.02 0.0 0.0	0.0 0.0 0.0	0.01	Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G
2	54.91 0.0 0.0	0.27 63.82 0.0 0.0	8.91 0.0 0.0	8.91		
3	57.8 0.0 0.0	0.38 68.49 0.0 0.0	10.69 0.0 0.0	10.69		
4	60.7 0.0 0.0	0.46 72.03 0.0 0.0	11.34 0.0 0.0	11.34		
5	63.59 0.0 0.0	0.53 75.0 0.0 0.0	11.41 0.0 0.0	11.41		
6	66.48 0.0 0.0	0.59 77.61 0.0 0.0	11.12 0.0 0.0	11.12		
7	69.37 0.0 0.0	0.64 79.95 0.0 0.0	10.57 0.0 0.0	10.57		
8	72.27 0.0 0.0	0.69 82.1 0.0 0.0	9.83 0.0 0.0	9.83		
9	75.16 0.0 0.0	0.74 84.09 0.0 0.0	8.93 0.0 0.0	8.93		
10	78.05 0.0 0.0	0.78 85.96 0.0 0.0	7.91 0.0 0.0	7.91		
11	80.95 0.0 0.0	0.82 87.72 0.0 0.0	6.78 0.0 0.0	6.78		
12	83.84 0.0 0.0	0.86 89.4 0.0 0.0	5.56 0.0 0.0	5.56		
13	86.73 0.0 0.0	0.9 91.0 0.0 0.0	4.26 0.0 0.0	4.26		
14	89.62 0.0 0.0	0.93 92.53 0.0 0.0	2.9 0.0 0.0	2.9		
15	92.52 0.0 0.0	0.97 93.99 0.0 0.0	1.48 0.0 0.0	1.48	Mean lightness difference (16 steps)	
16	95.41 0.0 0.0	1.0 95.41 0.0 0.0	0.0 0.0 0.0	0.01	ΔE* _{CIELAB} = 7.0	
17	52.02 0.0 0.0	0.0 52.02 0.0 0.0	0.0 0.0 0.0	0.01		
18	62.87 0.0 0.0	0.51 74.3 0.0 0.0	11.43 0.0 0.0	11.43		
19	73.71 0.0 0.0	0.72 83.11 0.0 0.0	9.4 0.0 0.0	9.4		
20	84.56 0.0 0.0	0.87 89.81 0.0 0.0	5.24 0.0 0.0	5.24	Mean lightness difference (5 steps)	
21	95.41 0.0 0.0	1.0 95.41 0.0 0.0	0.0 0.0 0.0	0.01	ΔL* _{CIELAB} = 5.2	
Mean colour reproduction index:					R* _{ab,m} = 70	

OE610-3N-136-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE611-3N-136-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

L*/Y _{intended} (absolute)	52.0/20.2	54.9/22.8	57.8/25.8	60.7/28.9	63.6/32.3	66.5/36.0	69.4/39.9	72.3/44.1	75.2/48.5	78.1/53.3	80.9/58.4	83.8/63.8	86.7/69.5	89.6/75.5	92.5/81.9	95.4/88.6
w* w* w* setrgb																
g _p =0.48																
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)																
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	0,273	0,379	0,461	0,53	0,589	0,644	0,693	0,739	0,782	0,823	0,861	0,898	0,934	0,967	1,0

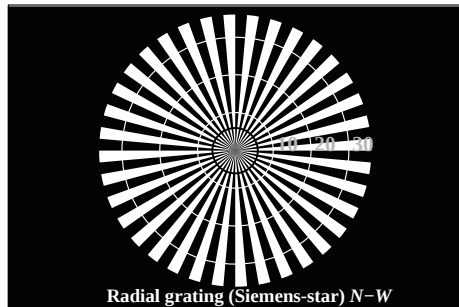
OE610-7N, Picture A7-136-2: 16 visual equidistant L*-grey steps; PS operator: w* w* w* setrgbcolor

OE61: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:20$; Y_N range 15 to <30

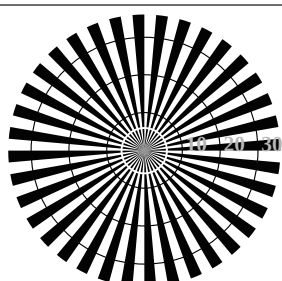
input: w (->rgb*_{de}) setgray
output 136-2: $g_P=0.55$; $g_N=1.0$

TUB registration: 20110801-OE61/OE61L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta

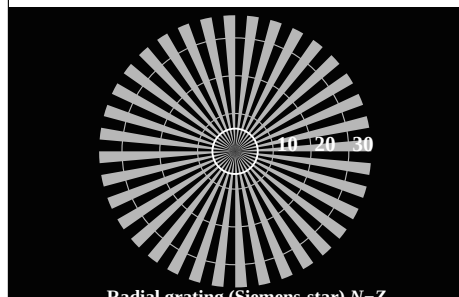
See similar ISO test charts: <http://www.ps.bam.de/24705TE>, <http://www.ps.bam.de/9241E>
Technical information: <http://www.ps.bam.de/33872E> Version 2.1, io=1,1, CIELAB



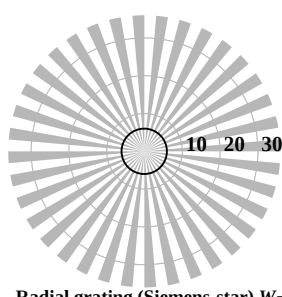
Radial grating (Siemens-star) N-W



Radial grating (Siemens-star) W-N

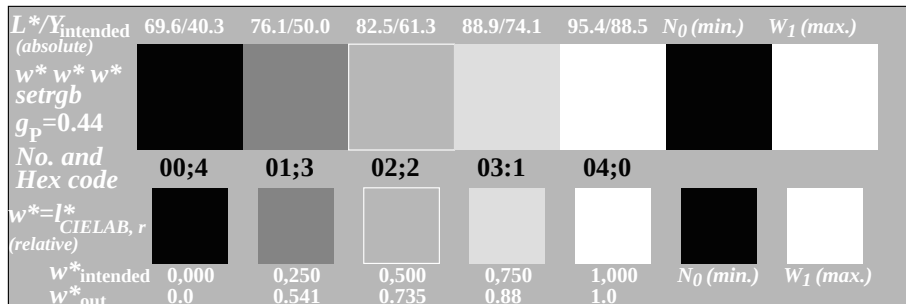


Radial grating (Siemens-star) N-Z

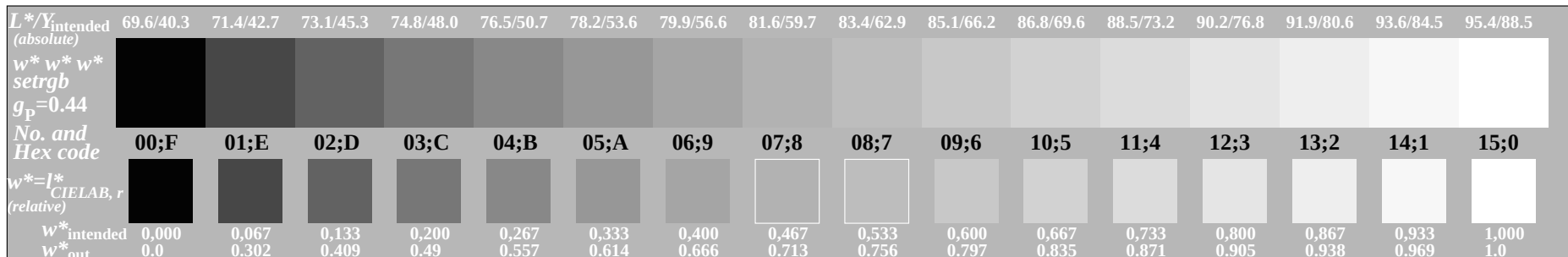


Radial grating (Siemens-star) W-Z

OE610-3N, Picture A1-137-0: Radial grating N-W, W-N, N-Z, W-Z; PS operator: $w^* w^* w^* \text{setrgbcolor}$



OE610-5N, Picture A2-137-0: 5 equidistant L^* -grey steps+ N_0 + W_1 ; PS operator: $w^* w^* w^* \text{setrgbcolor}$



OE610-7N, Picture A3-137-0: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^* \text{setrgbcolor}$

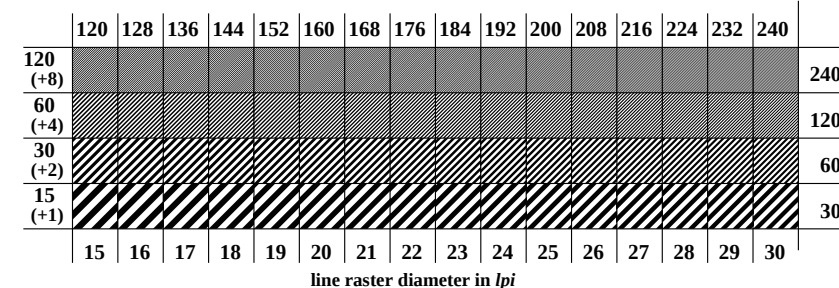
OE61: similar ME16 according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:40$; Y_N range 30 to <60

background step 0		1	ring step	0-1
Hex code		8	Hex code	7-8
7		F		E-F
E		0		2-0
2		6		8-6
8		D		F-D
F				

Landolt-rings W-N

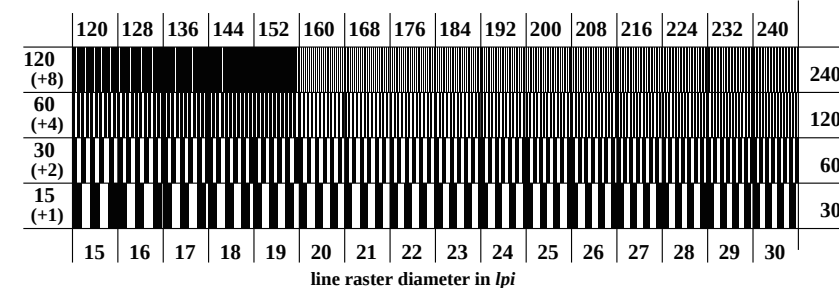
code: background-ring

OE611-1N, Picture A4-137-0: Landolt-rings W-N; PS operator: $w^* w^* w^* \text{setrgbcolor}$



line raster diameter in lpi

OE611-3N, Picture A5-137-0: Line raster under 45° (or 135°); PS operator: $w^* w^* w^* \text{setrgbcolor}$



line raster diameter in lpi

OE611-5N, Picture A6-137-0: Line raster under 90° (or 0°); PS operator: $w^* w^* w^* \text{setrgbcolor}$

input: w ($\rightarrow \text{rgb}^*_{\text{de}}$) setgray
output 137-0: $g_p=0.47$; $g_N=1.0$

TUB registration: 20110801-OE61/OE61L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta

OE610-3N-137-1

Part 3

OE610-7N-137-1

OE611-3N-137-1

Part 4

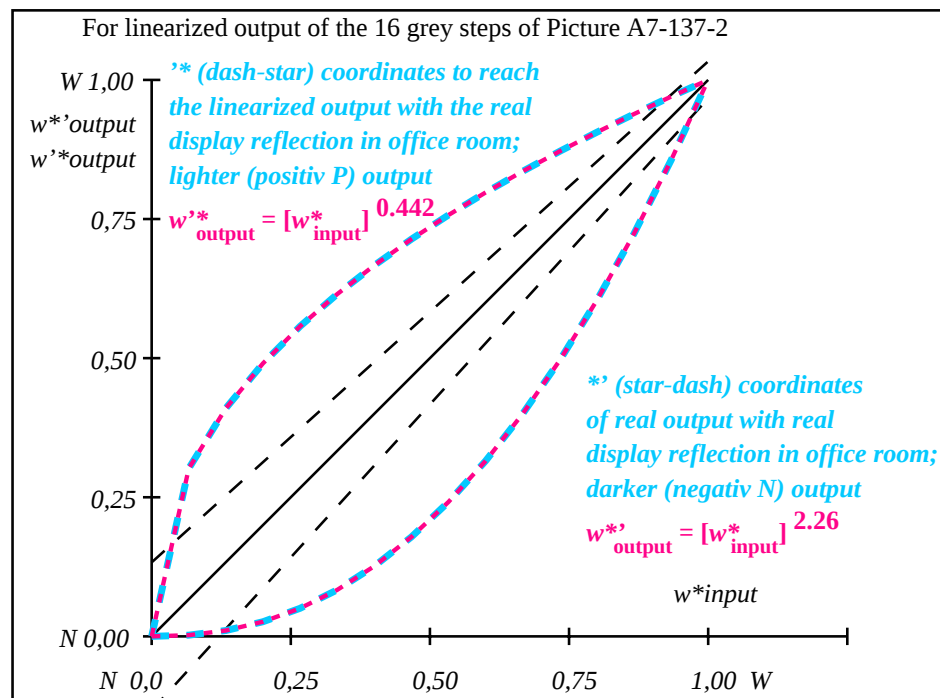
OE611-7N-137-1

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, CIELAB

i	LAB*ref	L*out	LAB*out	LAB*out/c-ref	ΔE^*
1	69.7 0.0 0.0	69.7 0.0 0.0	69.7 0.0 0.0	0.0 0.0 0.0	0.01
2	71.41 0.0 0.0	0.3 77.46 0.0 0.0	6.04 0.0 0.0	6.04	6.04
3	73.13 0.0 0.0	0.41 80.24 0.0 0.0	7.11 0.0 0.0	7.11	7.11
4	74.84 0.0 0.0	0.49 82.31 0.0 0.0	7.47 0.0 0.0	7.47	7.47
5	76.55 0.0 0.0	0.56 84.02 0.0 0.0	7.47 0.0 0.0	7.47	7.47
6	78.27 0.0 0.0	0.62 85.51 0.0 0.0	7.24 0.0 0.0	7.24	7.24
7	79.98 0.0 0.0	0.67 86.84 0.0 0.0	6.86 0.0 0.0	6.86	6.86
8	81.7 0.0 0.0	0.71 88.05 0.0 0.0	6.35 0.0 0.0	6.35	6.35
9	83.41 0.0 0.0	0.76 89.17 0.0 0.0	5.76 0.0 0.0	5.76	5.76
10	85.12 0.0 0.0	0.8 90.21 0.0 0.0	5.08 0.0 0.0	5.08	5.08
11	86.84 0.0 0.0	0.84 91.19 0.0 0.0	4.35 0.0 0.0	4.35	4.35
12	88.55 0.0 0.0	0.87 92.11 0.0 0.0	3.56 0.0 0.0	3.56	3.56
13	90.27 0.0 0.0	0.91 92.99 0.0 0.0	2.73 0.0 0.0	2.73	2.73
14	91.98 0.0 0.0	0.94 93.83 0.0 0.0	1.85 0.0 0.0	1.85	1.85
15	93.7 0.0 0.0	0.97 94.64 0.0 0.0	0.94 0.0 0.0	0.94	0.94
16	95.41 0.0 0.0	1.0 95.41 0.0 0.0	0.0 0.0 0.0	0.01	$\Delta E^*_{\text{CIELAB}} = 4.6$
17	69.7 0.0 0.0	0.0 69.7 0.0 0.0	0.0 0.0 0.0	0.01	
18	76.13 0.0 0.0	0.54 83.62 0.0 0.0	7.5 0.0 0.0	7.5	7.5
19	82.55 0.0 0.0	0.74 88.62 0.0 0.0	6.06 0.0 0.0	6.06	6.06
20	88.98 0.0 0.0	0.88 92.34 0.0 0.0	3.35 0.0 0.0	3.35	
21	95.41 0.0 0.0	1.0 95.41 0.0 0.0	0.0 0.0 0.0	0.01	$\Delta L^*_{\text{CIELAB}} = 3.4$

Mean lightness difference (16 steps)
 $\Delta E^*_{\text{CIELAB}} = 4.6$
Mean lightness difference (5 steps)
 $\Delta L^*_{\text{CIELAB}} = 3.4$
Mean colour reproduction index: $R^*_{\text{ab,m}} = 80$

OE610-3N-137-2: File: Measure unknown; Device: Device unknown; Date: Date unknown



OE611-3N-137-2: File: Measure unknown; Device: Device unknown; Date: Date unknown

L^*/Y_{intended} (absolute)	69.7/40.3	71.4/42.8	73.1/45.4	74.8/48.0	76.6/50.8	78.3/53.7	80.0/56.6	81.7/59.7	83.4/62.9	85.1/66.3	86.8/69.7	88.6/73.2	90.3/76.9	92.0/80.7	93.7/84.6	95.4/88.6
$w^* w^* w^*$ setrgb $g_p=0.44$ 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
$w^* = [L^*_{\text{CIELAB}}]^r$ (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	0,302	0,41	0,491	0,557	0,615	0,667	0,714	0,757	0,798	0,836	0,872	0,906	0,939	0,97	1,0

OE610-7N, Picture A7-137-2: 16 visual equidistant L^* -grey steps; PS operator: $w^* w^* w^* \text{setrgbcolor}$

OE61: In-output relation according to ISO 9241-306; 1MR, DEH
Viewing Y contrast $Y_W:Y_N=88,9:40$; Y_N range 30 to <60

input: $w (->rgb^*_{\text{de}}) \text{setgray}$
output 137-2: $g_p=0.47$; $g_N=1.0$

TUB registration: 20110801-OE61/OE61L0NA.TXT /.PS
application for output of displays: monitor systems or data projector systems
TUB material: code=rh4ta