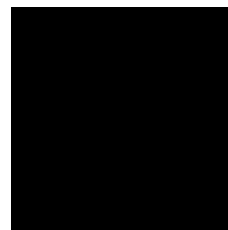
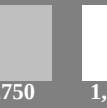
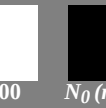
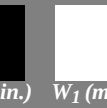


See for similar files: <http://www.ps.bam.de/CE39/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,0?

BAM registration: 20040601-CE39/10L/L39E00SP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output
/CE39/ Form: 1/19, Serie: 1/1, Page: 1 Page count: 1



L^*/Y_{intended} (absolute)	0.0/0.0	23.8/4.0	47.7/16.5	71.5/42.9	95.4/88.5	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	00,4	01,3	02,2	03,1	04,0		
$w^*=L^*_{\text{CIELAB}, r}$ (relative) W_{input}	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$
							

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*_{\text{lin}} 1.0 \exp \text{ setgray}$

BAM-test chart no. CE39

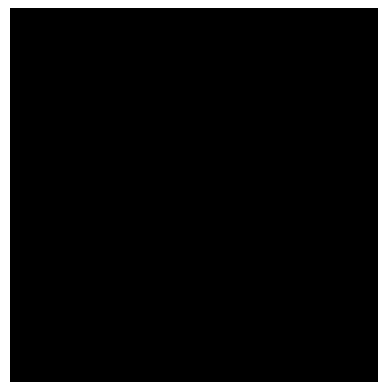
Measurement test of 3 sizes of black and white in surrounds W, N output: *Startup (S) data dependend*

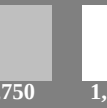
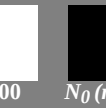
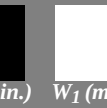
Step:

input: $w^* \text{ setgray}$

See for similar files: <http://www.ps.bam.de/CE39/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,0?

BAM registration: 20040601-CE39/10L/L39E01SP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output
/CE39/ Form: 2/19, Serie: 1/1, Page: 2 Page count: 2



L^*/Y_{intended} (absolute)	0.0/0.0	23.8/4.0	47.7/16.5	71.5/42.9	95.4/88.5	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*_{\text{CIELAB}, r}$ (relative) W_{input}						$N_0(\text{min.})$	$W_1(\text{max.})$
							
	0,000	0,250	0,500	0,750	1,000		

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*lin 1.0 exp setgray$

BAM-test chart no. CE39

Measurement test of 3 sizes of black and white in surrounds W, N output: *Startup (S) data dependend*

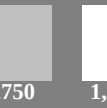
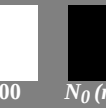
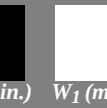
Step:

input: $w^* setgray$

See for similar files: <http://www.ps.bam.de/CE39/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,0?

BAM registration: 20040601-CE39/10L/L39E02SP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output
/CE39/ Form: 3/19, Serie: 1/1, Page: 3 Page count: 3



L^*/Y_{intended} (absolute)	0.0/0.0	23.8/4.0	47.7/16.5	71.5/42.9	95.4/88.5	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	00,4	01,3	02,2	03,1	04,0		
$w^* = \frac{L^*}{L^*_{\text{input}}}$ (relative)	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$
							

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^* \text{lin } 1.0 \exp \text{ setgray}$

BAM-test chart no. CE39

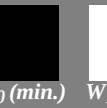
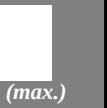
Measurement test of 3 sizes of black and white in surrounds W, N output: Startup (S) data dependend

Step:

input: $w^* \text{ setgray}$

See for similar files: <http://www.ps.bam.de/CE39/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,0?

BAM registration: 20040601-CE39/10L/L39E03SP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output
/CE39/ Form: 4/19, Serie: 1/1, Page: 4 Page: count: 4

L^*/Y_{intended}	0.0/0.0	23.8/4.0	47.7/16.5	71.5/42.9	95.4/88.5	$N_0(\text{min.})$	$W_1(\text{max.})$
(absolute)							
	00,4	01,3	02,2	03,1	04,0		
$w^* = I^*_{\text{CIELAB}, r}$							
(relative) w^*_{input}	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*_{\text{lin}} 1.0 \exp \text{ setgray}$

BAM-test chart no. CE39

Measurement test of 3 sizes of black and white in surrounds W, N output: Startup (S) data dependent

Step:

input: $w^* \text{ setgray}$

See for similar files: <http://www.ps.bam.de/CE39/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,0?

BAM registration: 20040601-CE39/10L/L39E04SP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output

/CE39/ Form: 5/19, Serie: 1/1, Page: 5 Page count: 5

L^*/Y_{intended}	0.0/0.0	23.8/4.0	47.7/16.5	71.5/42.9	95.4/88.5	$N_0(\text{min.})$	$W_1(\text{max.})$
(absolute)							
	00,4	01,3	02,2	03,1	04,0		
$w^* = l^*_{\text{CIELAB}, r}$							
(relative) w^*_{input}	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*_{\text{lin}} 1.0 \exp \text{ setgray}$

BAM-test chart no. CE39

Measurement test of 3 sizes of black and white in surrounds W,N,output: Startup (S) data dependend

Step:

input: $w^* \text{ setgray}$

See for similar files: <http://www.ps.bam.de/CE39/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,0?

BAM registration: 20040601-CE39/10L/L39E05SP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output

/CE39/ Form: 6/19, Serie: 1/1, Page: 6 Page count: 6

L^*/Y_{intended}	0.0/0.0	23.8/4.0	47.7/16.5	71.5/42.9	95.4/88.5	$N_0(\text{min.})$	$W_1(\text{max.})$
(absolute)							
	00,4	01,3	02,2	03,1	04,0		
$w^* = l^*_{\text{CIELAB}, r}$							
(relative) w^*_{input}	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*lin 1.0 exp setgray$

BAM-test chart no. CE39

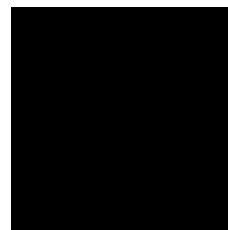
Measurement test of 3 sizes of black and white in surrounds W, N output: *Startup (S) data dependent*

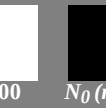
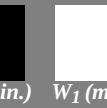
Step:

input: $w^* setgray$

See for similar files: <http://www.ps.bam.de/CE39/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,0?

BAM registration: 20040601-CE39/10L/L39E06SP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output
/CE39/ Form: 7/19, Serie: 1/1, Page: 7 Page count: 7



$L^*_{\text{inten/out1}}$	0.0/0.0	23.8/23.8	47.7/47.7	71.5/71.5	95.4/95.4	$N_0(\text{min.})$	$W_1(\text{max.})$
(absolute)							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*_{\text{CIELAB}, r}$						$N_0(\text{min.})$	$W_1(\text{max.})$
(relative)							
	0,000	0,250	0,500	0,750	1,000		
w^*_{input}	0.0	0.249	0.499	0.749	1.0		
w^*_{out1}							

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*_{\text{lin}} 1.0 \exp \text{ setgray}$

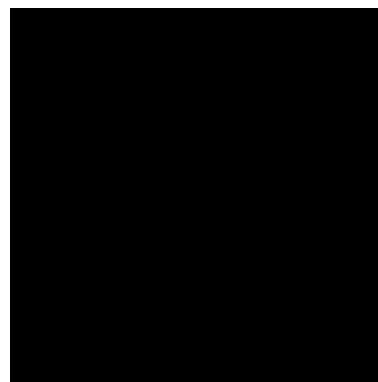
BAM-test chart no. CE39

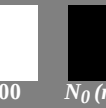
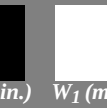
Measurement test of 3 sizes of black and white in surrounds W,Noutput: Startup (S) data dependend

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

See for similar files: <http://www.ps.bam.de/CE39/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,0?

BAM registration: 20040601-CE39/10L/L39E07SP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output
/CE39/ Form: 8/19, Serie: 1/1, Page: 8 Page count: 8



$L^*_{\text{inten/out1}}$	0.0/0.0	23.8/23.8	47.7/47.7	71.5/71.5	95.4/95.4	$N_0(\text{min.})$	$W_1(\text{max.})$
(absolute)							
	00,4	01,3	02,2	03,1	04,0		
$w^* = l^*_{\text{CIELAB}, r}$							
(relative)							
w^*_{input}	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$
w^*_{out1}	0.0	0.249	0.499	0.749	1.0		

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*lin 1.0 exp setgray$

BAM-test chart no. CE39

Measurement test of 3 sizes of black and white in surrounds W, N output: *Startup (S) data dependend*

Step:

input: $w^* setgray$



$L^*_{\text{inten/out1}}$	0.0/0.0	23.8/23.8	47.7/47.7	71.5/71.5	95.4/95.4	$N_0(\text{min.})$	$W_1(\text{max.})$
(absolute)							
	00,4	01,3	02,2	03,1	04,0		
$w^* = l^*_{\text{CIELAB}, r}$						$N_0(\text{min.})$	$W_1(\text{max.})$
(relative)							
w^*_{input}	0,000	0,250	0,500	0,750	1,000		
w^*_{outp1}	0.0	0.249	0.499	0.749	1.0		

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*lin 1.0 exp setgray$

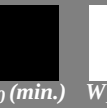
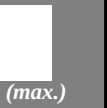
BAM-test chart no. CE39

Measurement test of 3 sizes of black and white in surrounds W, N output: *Startup (S) data dependend*

See for similar files: <http://www.ps.bam.de/CE39/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,0?

BAM registration: 20040601-CE39/10L/L39E09SP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output

/CE39/ Form: 10/19, Serie: 1/1, Page: 10 Page count: 10

$L^*_{\text{inten/out1}}$	0.0/0.0	23.8/23.8	47.7/47.7	71.5/71.5	95.4/95.4	$N_0(\text{min.})$	$W_1(\text{max.})$
(absolute)							
	00,4	01,3	02,2	03,1	04,0		
$w^* = l^*_{\text{CIELAB}, r}$							
(relative)	w^*_{input} 0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$
	w^*_{outp1} 0.0	0.249	0.499	0.749	1.0		

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*lin 1.0 exp setgray$

BAM-test chart no. CE39

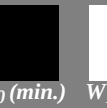
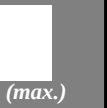
Measurement test of 3 sizes of black and white in surrounds W, N output: *Startup (S) data dependent*

Step:

input: $w^* setgray$

See for similar files: <http://www.ps.bam.de/CE39/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,0?

BAM registration: 20040601-CE39/10L/L39E0ASP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output
/CE39/ Form: 11/19, Serie: 1/1, Page: 11 Page count: 11

$L^*_{\text{inten/out1}}$	0.0/0.0	23.8/23.8	47.7/47.7	71.5/71.5	95.4/95.4	$N_0(\text{min.})$	$W_1(\text{max.})$
(absolute)							
	00,4	01,3	02,2	03,1	04,0		
$w^* = l^*_{\text{CIELAB}, r}$							
(relative)	w^*_{input} 0,000	w^*_{input} 0,250	w^*_{input} 0,500	w^*_{input} 0,750	w^*_{input} 1,000	$N_0(\text{min.})$	$W_1(\text{max.})$
	w^*_{outp1} 0.0	w^*_{outp1} 0.249	w^*_{outp1} 0.499	w^*_{outp1} 0.749	w^*_{outp1} 1.0		

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*lin 1.0 exp setgray$

BAM-test chart no. CE39

Measurement test of 3 sizes of black and white in surrounds W,N,output: Startup (S) data dependend

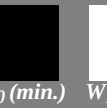
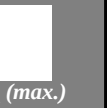
Step:

input: $w^* setgray$

See for similar files: <http://www.ps.bam.de/CE39/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,0?

BAM registration: 20040601-CE39/10L/L39E0BSP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output

/CE39/ Form: 12/19, Serie: 1/1, Page: 12 Page count: 12

$L^*_{\text{inten/out1}}$	0.0/0.0	23.8/23.8	47.7/47.7	71.5/71.5	95.4/95.4	$N_0(\text{min.})$	$W_1(\text{max.})$
(absolute)							
	00,4	01,3	02,2	03,1	04,0		
$w^* = L^*_{\text{CIELAB}, r}$							
(relative)							
	w^*_{input} 0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$
	w^*_{outp1} 0.0	0.249	0.499	0.749	1.0		

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*_{\text{lin}} 1.0 \exp \text{ setgray}$

BAM-test chart no. CE39

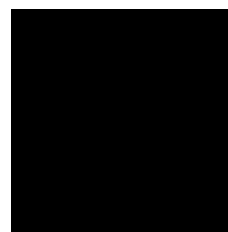
Measurement test of 3 sizes of black and white in surrounds W, N output: Startup (S) data dependent

Step:

input: $w^* \text{ setgray}$

See for similar files: <http://www.ps.bam.de/CE39/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,0?

BAM registration: 20040601-CE39/10L/L39E0CSP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output
/CE39/ Form: 13/19, Serie: 1/1, Page: 13 Page count: 13



L^*/Y_{outp2} (absolute)	0.0/0.0	23.8/4.0	47.7/16.5	71.5/42.9	95.4/88.5	N_0 (min.)	W_1 (max.)
							
	00,4	01,3	02,2	03,1	04,0		
$w^* = \frac{L^*}{L^*_{\text{ref}}}$ (relative)	w^*_{input} 0.000	0.250	0.500	0.750	1.000	N_0 (min.)	W_1 (max.)
	w^*_{outp2} 0.0	0.249	0.499	0.749	1.0		

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*_{\text{lin}} 1.0 \exp \text{ setgray}$

BAM-test chart no. CE39

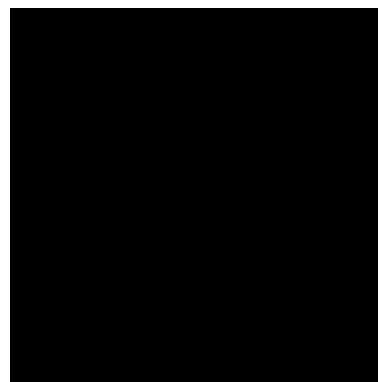
Measurement test of 3 sizes of black and white in surrounds W, Noutput: Startup (S) data dependend

Step:

input: $w^* \text{ setgray}$

See for similar files: <http://www.ps.bam.de/CE39/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,0?

BAM registration: 20040601-CE39/10L/L39E0DSP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output
/CE39/ Form: 14/19, Serie: 1/1, Page: 14 Page count: 14



L^*/Y_{outp2} (absolute)	0.0/0.0	23.8/4.0	47.7/16.5	71.5/42.9	95.4/88.5	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	00,4	01,3	02,2	03,1	04,0		
$w^*=L^*$ (relative)	w_{input}^*	w_{input}^*	w_{input}^*	w_{input}^*	w_{input}^*	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	0.000	0.250	0.500	0.750	1.000		
	0.0	0.249	0.499	0.749	1.0		

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

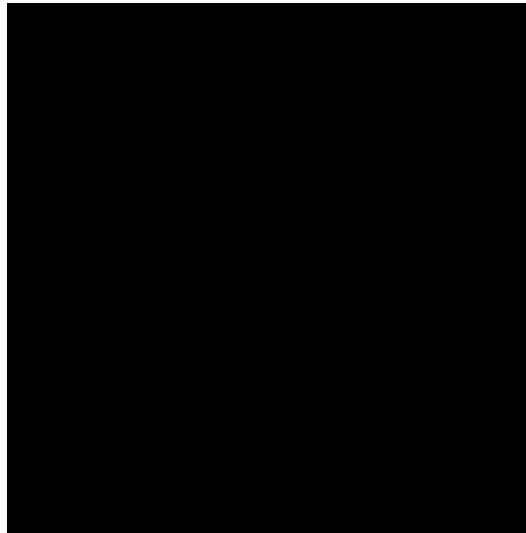
Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*lin 1.0 exp setgray$

BAM-test chart no. CE39

Measurement test of 3 sizes of black and white in surrounds W, N output: Startup (S) data dependend

Step:

input: $w^* setgray$



L^*/Y_{outp2} (absolute)	0.0/0.0	23.8/4.0	47.7/16.5	71.5/42.9	95.4/88.5	N_0 (min.)	W_1 (max.)
							
	00,4	01,3	02,2	03,1	04,0		
$w^* = l^*$ (relative)	w_{input}^* 0.000	0.250	0.500	0.750	1.000	N_0 (min.)	W_1 (max.)
	w_{outp2}^* 0.0	0.249	0.499	0.749	1.0		

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*lin 1.0 exp setgray$

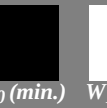
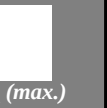
BAM-test chart no. CE39

Measurement test of 3 sizes of black and white in surrounds W, N output: *Startup (S) data dependend*

See for similar files: <http://www.ps.bam.de/CE39/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,0?

BAM registration: 20040601-CE39/10L/L39E00SP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output

/CE39/ Form: 16/19, Serie: 1/1, Page: 16 Page count: 16

L^*/Y_{outp2}	0.0/0.0	23.8/4.0	47.7/16.5	71.5/42.9	95.4/88.5	N_0 (min.)	W_1 (max.)
(absolute)							
	00,4	01,3	02,2	03,1	04,0		
$w^* = l^*_{\text{CIELAB}, r}$							
w^*_{input}	0,000	0,250	0,500	0,750	1,000	N_0 (min.)	W_1 (max.)
w^*_{outp2}	0.0	0.249	0.499	0.749	1.0		

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^* \ln 1.0 \exp \text{ setgray}$

BAM-test chart no. CE39

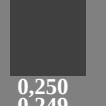
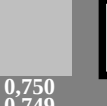
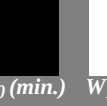
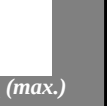
Measurement test of 3 sizes of black and white in surrounds W, N output: Startup (S) data dependent

Step:

input: $w^* \text{ setgray}$

See for similar files: <http://www.ps.bam.de/CE39/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,0?

BAM registration: 20040601-CE39/10L/L39E01SP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output
/CE39/ Form: 17/19, Serie: 1/1, Page: 17 Page count: 17

L^*/Y_{outp2} (absolute)	0.0/0.0	23.8/4.0	47.7/16.5	71.5/42.9	95.4/88.5	N_0 (min.)	W_1 (max.)
							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*_{\text{CIELAB}, r}$ (relative)	w^*_{input} w^*_{outp2}	0,000 0.0	0,250 0.249	0,500 0.499	0,750 0.749	N_0 (min.)	W_1 (max.)
							
		0.000 0.0	0.250 0.249	0.500 0.499	0.750 0.749		

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*lin 1.0 exp setgray$

BAM-test chart no. CE39

Measurement test of 3 sizes of black and white in surrounds W, N, output: Startup (S) data dependent

Step:

input: $w^* setgray$

See for similar files: <http://www.ps.bam.de/CE39/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,0?

BAM registration: 20040601-CE39/10L/L39E02SP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output

/CE39/ Form: 18/19, Serie: 1/1, Page: 18 Page count: 18

L^*/Y_{outp2} (absolute)	0.0/0.0	23.8/4.0	47.7/16.5	71.5/42.9	95.4/88.5	N_0 (min.)	W_1 (max.)
							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*_{\text{CIELAB}, r}$ (relative)	w^*_{input} 0.000	0.250	0.500	0.750	1.000	N_0 (min.)	W_1 (max.)
	w^*_{outp2} 0.0	0.249	0.499	0.749	1.0		

Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*_{\text{lin}} 1.0 \exp \text{ setgray}$

BAM-test chart no. CE39

Measurement test of 3 sizes of black and white in surrounds W, N output: Startup (S) data dependent

Step:

input: $w^* \text{ setgray}$

i	LAB*ref	LAB*out	LAB*out/c-ref	ΔE^*
1	18.0	0.0	0.0	0.01
2	23.16	0.0	0.0	0.04
3	28.32	0.0	0.0	0.02
4	33.48	0.0	0.0	0.02
5	38.64	0.0	0.0	0.04
6	43.8	0.0	0.0	0.01
7	48.96	0.0	0.0	0.04
8	54.12	0.0	0.0	0.02
9	59.28	0.0	0.0	0.02
10	64.44	0.0	0.0	0.04
11	69.6	0.0	0.0	0.01
12	74.76	0.0	0.0	0.04
13	79.92	0.0	0.0	0.02
14	85.08	0.0	0.0	0.02
15	90.24	0.0	0.0	0.04
16	95.4	0.0	0.0	0.01
17	18.0	0.0	0.0	0.01
18	37.35	0.0	0.0	0.03
19	56.7	0.0	0.0	0.01
20	76.05	0.0	0.0	0.03
21	95.4	0.0	0.0	0.01

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

ΔL^* -gray variation
 $v^* = 0.0$

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

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

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

File: Measure unknown; Device: Device unknown; Date: Date unknown

i	LAB*ref	LAB*out	LAB*out/c-ref	ΔE^*
1	18.0	0.0	0.0	0.01
2	23.16	0.0	0.0	0.04
3	28.32	0.0	0.0	0.02
4	33.48	0.0	0.0	0.02
5	38.64	0.0	0.0	0.04
6	43.8	0.0	0.0	0.01
7	48.96	0.0	0.0	0.04
8	54.12	0.0	0.0	0.02
9	59.28	0.0	0.0	0.02
10	64.44	0.0	0.0	0.04
11	69.6	0.0	0.0	0.01
12	74.76	0.0	0.0	0.04
13	79.92	0.0	0.0	0.02
14	85.08	0.0	0.0	0.02
15	90.24	0.0	0.0	0.04
16	95.4	0.0	0.0	0.01
17	18.0	0.0	0.0	0.01
18	37.35	0.0	0.0	0.03
19	56.7	0.0	0.0	0.01
20	76.05	0.0	0.0	0.03
21	95.4	0.0	0.0	0.01

linearized output S2&S3
Specification according to ISO/IEC 15775 Annex G and DIN 33866-1 Annex G

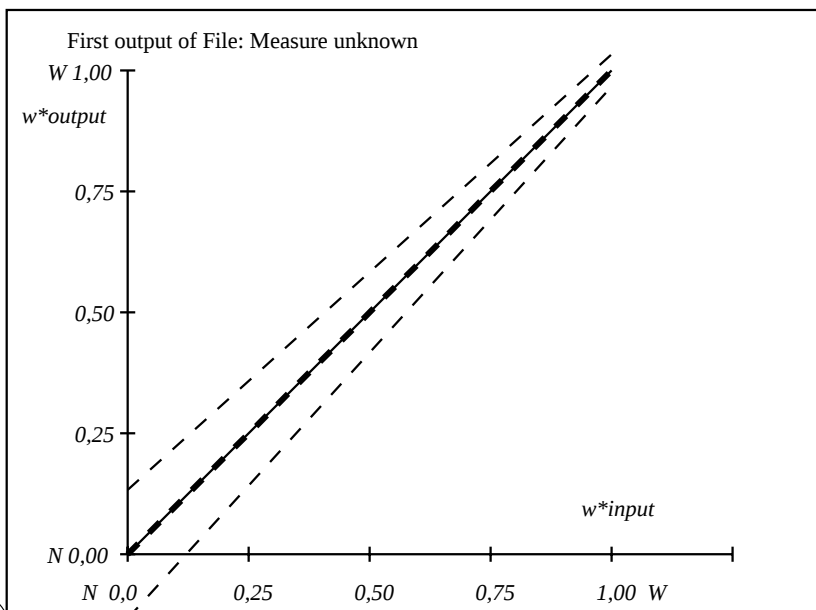
ΔL^* -gray variation
 $v^* = 0.0$

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

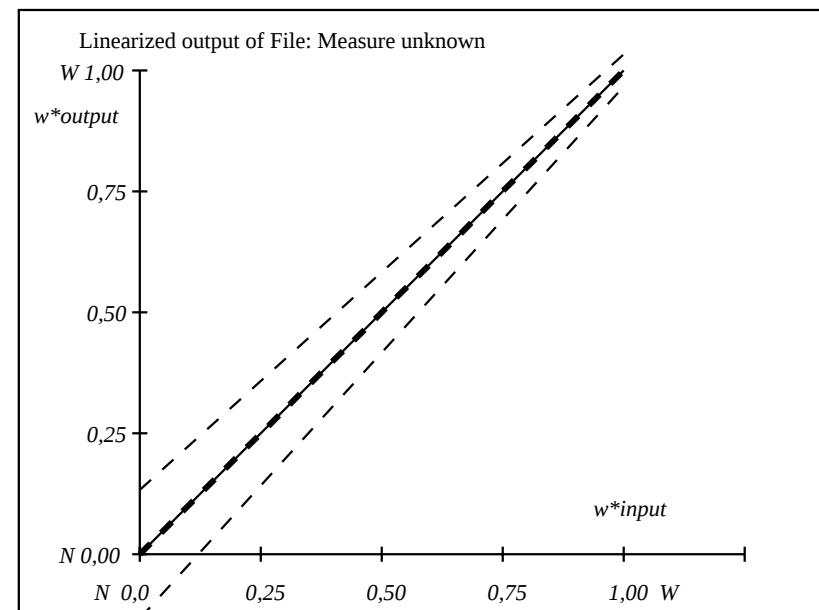
Mean lightness difference (5 steps)
 $\Delta L^*_{CIELAB} = 0.0$

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

File: Measure unknown; Device: Device unknown; Date: Date unknown



File: Measure unknown; Device: Device unknown; Date: Date unknown



File: Measure unknown; Device: Device unknown; Date: Date unknown

BAM-test chart no. CE39

Measurement test of 3 sizes of black and white in surrounds W,Noutput: Startup (S) data dependend

Step:

input: w^* setgray