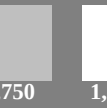
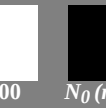
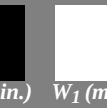


L^*/Y_{intended} (absolute)	0.0/0.0	23.8/4.0	47.7/16.5	71.5/42.9	95.4/88.5	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*_{\text{CIELAB}, r}$ (relative) W_{input}	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$
							

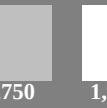
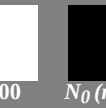
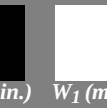
Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

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

BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S1

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

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 $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

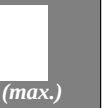
Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*lin 1.0 exp setgray$

BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S1

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$



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: $w^*lin 1.0 exp setgray$

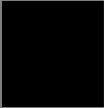
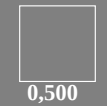
BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S1

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

See for similar files: <http://www.ps.bam.de/CE32/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,1; iLRS; oLRS, CIE XYZ

BAM registration: 20040601-CE32/10L/L32E02FP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output, $Y_i=0,0, XYZ$
/CE32/ Form: 3/46, Serie: 1/1, Page: 3 Page count: 3

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. CE32

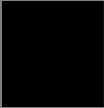
Measurement test of 5 center luminances by 3

Step: S1

surrounds N,Z,W

input: $w^* setgray$

output: $olv^* setrgbcolor / w^* setgray$

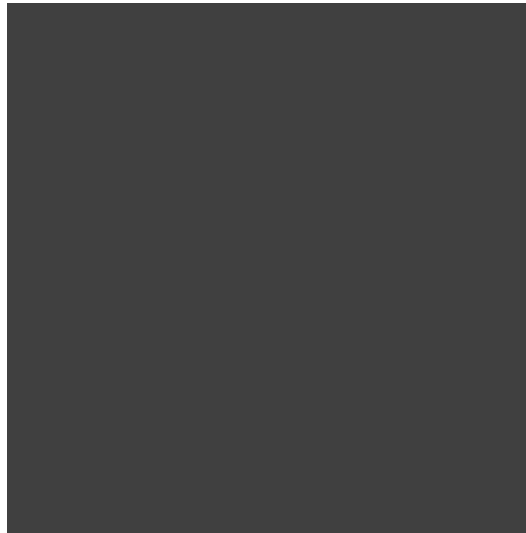
L^*/Y_{intended}	0.0/0.0	23.8/4.0	47.7/16.5	71.5/42.9	95.4/88.5	$N_0(\text{min.})$	$W_1(\text{max.})$
(absolute)							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*_{\text{CIELAB}, r}$							
(relative) w^*_{input}	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$

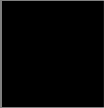
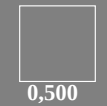
Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

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

BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$



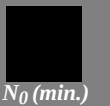
L^*/Y_{intended} (absolute)	0.0/0.0	23.8/4.0	47.7/16.5	71.5/42.9	95.4/88.5	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*_{\text{CIELAB}, r}$ (relative) W_{input}							
							
	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$

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: $w^*lin 1.0 exp setgray$

BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

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: $w^*_{\text{lin}} 1.0 \exp \text{ setgray}$

BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S1

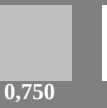
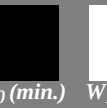
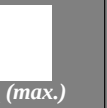
input: $w^* \text{ setgray}$
output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$

See for similar files: <http://www.ps.bam.de/CE32/>
Technical information: <http://www.ps.bam.de>

Version 2.0, io=0,1; iLRS; oLRS, CIEXYZ

BAM registration: 20040601-CE32/10L/L32E07FP.PS/.PDF
application for relative reproduction properties of achromatic device output, YI=0.0, XYZ

BAM material: code=th4ta
/CE32/ Form: 8/46, Serie: 1/1, Page: 8
Page count: 8

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		

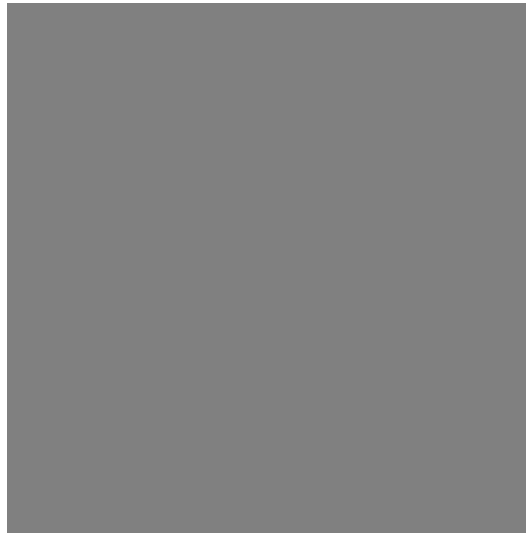
Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

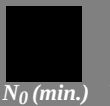
Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*lin 1.0 exp setgray$

BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S1

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$



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: $w^*lin 1.0 exp setgray$

BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S1

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

See for similar files: <http://www.ps.bam.de/CE32/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,1; iLRS; oLRS, CIE XYZ

BAM registration: 20040601-CE32/10L/L32E08FP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output, $Y_i=0,0, XYZ$
/CE32/ Form: 946, Serie: 1/1, Page: 9 Page count: 9

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	$N_0(\text{min.})$	$W_1(\text{max.})$

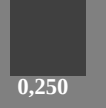
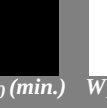
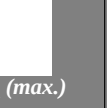
Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

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

BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S1

input: $w^* \text{ setgray}$
output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$

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: $w^*lin 1.0 exp setgray$

BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S1

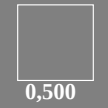
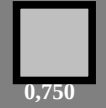
input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

See for similar files: <http://www.ps.bam.de/CE32/>
Technical information: <http://www.ps.bam.de>

Version 2.0, io=0,1; iLRS; oLRS, CIE XYZ

BAM registration: 20040601-CE32/10L/L32E0BFP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output, $Y_i=0,0$, XYZ

/CE32/ Form: 12/46, Serie: 1/1, Page: 12 Page count: 12

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		
$w^*=I^*_{\text{CIELAB}, r}$ (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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S1

input: $w^* \text{ setgray}$
output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$

See for similar files: <http://www.ps.bam.de/CE32/>
Technical information: <http://www.ps.bam.de>

Version 2.0, io=0,1; iLRS; oLRS, CIEXYZ

BAM registration: 20040601-CE32/10L/L32E0CFP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output, Y_i=0,0, XYZ

/CE32/ Form: 13/46, Serie: 1/1, Page: 13 Page count: 13

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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S1

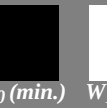
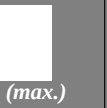
input: $w^* \text{ setgray}$
output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$

See for similar files: <http://www.ps.bam.de/CE32/>
Technical information: <http://www.ps.bam.de>

Version 2.0, io=0,1; iLRS; oLRS, CIEXYZ

BAM registration: 20040601-CE32/10L/L32E0DFP.PS/.PDF BAM material: code=th4ta
application for relative reproduction properties of achromatic device output, Y_i=0,0, XYZ

/CE32/ Form: 14/46, Serie: J/1, Page: 14 Page count: 14

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: $w^*lin 1.0 exp setgray$

BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S1

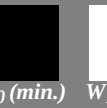
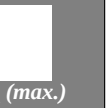
input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

See for similar files: <http://www.ps.bam.de/CE32/>
Technical information: <http://www.ps.bam.de>

Version 2.0, io=0,1; iLRS; oLRS, CIEXYZ

BAM registration: 20040601-CE32/10L/L32E0EFP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output, Y_i=0,0, XYZ

/CE32/ Form: 15/46, Serie: 1/1, Page: 15 Page count: 15

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: $w^*lin 1.0 exp setgray$

BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S1

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

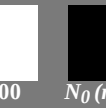
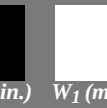
$L^*_{\text{inten/outp1}}$	11.8/11.8	32.7/31.5	53.6/55.6	74.5/76.1	95.4/95.4	$N_0(\text{min.})$	$W_1(\text{max.})$
(absolute)							
							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*_{\text{CIELAB}, r}$							
(relative)							
w^*_{input}	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$
w^*_{outp1}	0.0	0.236	0.524	0.769	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

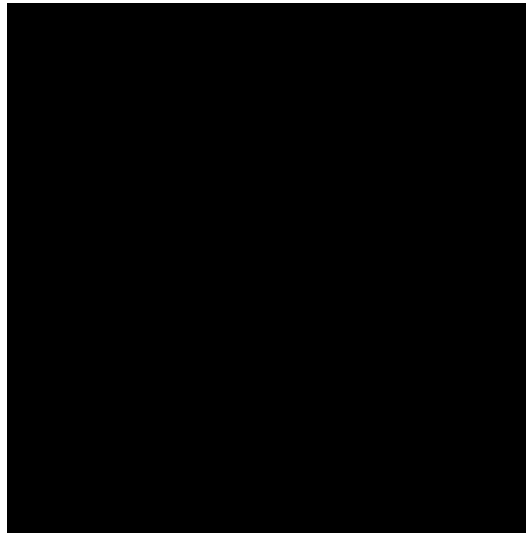
$L^*_{\text{inten/outp1}}$ (absolute)	11.8/11.8	32.7/31.5	53.6/55.6	74.5/76.1	95.4/95.4	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*_{\text{CIELAB}, r}$ (relative)	w^*_{input}	w^*_{input}	w^*_{input}	w^*_{input}	w^*_{input}	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	0.000	0.250	0.500	0.750	1.000		
	0.0	0.236	0.524	0.769	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: $w^*lin 1.0 exp setgray$

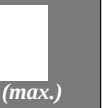
BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$



See for similar files: <http://www.ps.bam.de/CE32/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,1; iLRS; oLRS, CIE XYZ

BAM registration: 20040601-CE32/10L/L32E02FP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output, YI=0,0, XYZ
/CE32/ Form: 18/46, Serie: J/1, Page: 18 Page count: 18

$L^*_{\text{inten/out1}}$	11.8/11.8	32.7/31.5	53.6/55.6	74.5/76.1	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	0.236	0.524	0.769	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

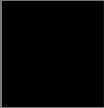
$L^*_{\text{inten/outp1}}$	11.8/11.8	32.7/31.5	53.6/55.6	74.5/76.1	95.4/95.4	$N_0(\text{min.})$	$W_1(\text{max.})$
(absolute)							
	00,4	01,3	02,2	03,1	04,0		
$w^* = l^*_{\text{CIELAB}, r}$							
(relative)							
w^*_{input}	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$
w^*_{outp1}	0.0	0.236	0.524	0.769	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

$L^*_{\text{inten/out1}}$ (absolute)	11.8/11.8	32.7/31.5	53.6/55.6	74.5/76.1	95.4/95.4	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^*_{out1}	0.0	0.236	0.524	0.769	1.0		

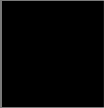
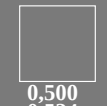
Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

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

BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$



$L^*_{\text{inten/out1}}$	11.8/11.8	32.7/31.5	53.6/55.6	74.5/76.1	95.4/95.4	$N_0(\text{min.})$	$W_1(\text{max.})$
(absolute)							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*_{\text{CIELAB}, r}$							
w^*_{input}	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$
w^*_{outp1}	0.0	0.236	0.524	0.769	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

$L^*_{\text{inten/outp1}}$	11.8/11.8	32.7/31.5	53.6/55.6	74.5/76.1	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	0.236	0.524	0.769	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

$L^*_{\text{inten/out1}}$ (absolute)	11.8/11.8	32.7/31.5	53.6/55.6	74.5/76.1	95.4/95.4	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*_{\text{CIELAB}, r}$ (relative)						$N_0(\text{min.})$	$W_1(\text{max.})$
w^*_{input}	0,000	0,250	0,500	0,750	1,000		
w^*_{out1}	0.0	0.236	0.524	0.769	1.0		

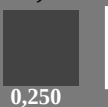
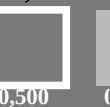
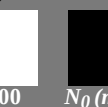
Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

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

BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* \text{ setgray}$
output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$



$L^*_{\text{inten/out1}}$	11.8/11.8	32.7/31.5	53.6/55.6	74.5/76.1	95.4/95.4	$N_0(\text{min.})$	$W_1(\text{max.})$
(absolute)							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*_{\text{CIELAB}, r}$							
w^*_{input}	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$
w^*_{outp1}	0.0	0.236	0.524	0.769	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S2

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

$L^*_{\text{inten/outp1}}$ (absolute)	11.8/11.8	32.7/31.5	53.6/55.6	74.5/76.1	95.4/95.4	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*_{\text{CIELAB}, r}$ (relative)	w^*_{input}	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	0.236	0.524	0.769	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S2

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

$L^*_{\text{inten/out1}}$ (absolute)	11.8/11.8	32.7/31.5	53.6/55.6	74.5/76.1	95.4/95.4	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*_{\text{CIELAB}, r}$ (relative)	w^*_{input}	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		
	w^*_{out1}	0.236	0.524	0.769	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

See for similar files: <http://www.ps.bam.de/CE32/>
Technical information: <http://www.ps.bam.de>

Version 2.0, io=0,1; iLRS; oLRS, CIE XYZ

BAM registration: 20040601-CE32/10L/L32E0BFP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output, Y_i=0,0, XYZ

/CE32/ Form: 27/46Series 1/1, Page: 27 Page count: 27

$L^*_{\text{inten/out1}}$	11.8/11.8	32.7/31.5	53.6/55.6	74.5/76.1	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	0.236	0.524	0.769	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* \text{ setgray}$
output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$

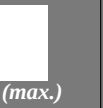
$L^*_{\text{inten/outp1}}$	11.8/11.8	32.7/31.5	53.6/55.6	74.5/76.1	95.4/95.4	$N_0(\text{min.})$	$W_1(\text{max.})$
(absolute)							
	00,4	01,3	02,2	03,1	04,0		
$w^* = l^*_{\text{CIELAB}, r}$							
(relative)							
w^*_{input}	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$
w^*_{outp1}	0.0	0.236	0.524	0.769	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

$L^*_{\text{inten/out1}}$ (absolute)	11.8/11.8	32.7/31.5	53.6/55.6	74.5/76.1	95.4/95.4	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^*_{out1}	0.0	0.236	0.524	0.769	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S2

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

See for similar files: <http://www.ps.bam.de/CE32/>
Technical information: <http://www.ps.bam.de>

Version 2.0, io=0,1; iLRS; oLRS, CIE XYZ

BAM registration: 20040601-CE32/10L/L32E0EFP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output, YI=0,0, XYZ

/CE32/ Form: 30/46 Series 1/1, Page: 30 Page count: 30

$L^*_{\text{inten/out1}}$	11.8/11.8	32.7/31.5	53.6/55.6	74.5/76.1	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	0.236	0.524	0.769	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S2

input: $w^* \text{ setgray}$
output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$

L^*/Y_{outp2} (absolute)	11.8/1.3	33.1/7.6	53.4/21.4	74.6/47.7	95.4/88.6	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	0.254	0.497	0.751	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S3

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

See for similar files: <http://www.ps.bam.de/CE32/>
Technical information: <http://www.ps.bam.de>

Version 2.0, io=0,1; iLRS; oLRS; CIEXYZ

BAM registration: 20040601-CE32/10L/L32E01FP.PS/.PDF
application for relative reproduction properties of achromatic device output, $Y_i=0.0$, XYZ

BAM material: code=th4ta
/CE32/ Form: 32/46, Serie: 1/1, Page: 32 Page count: 32

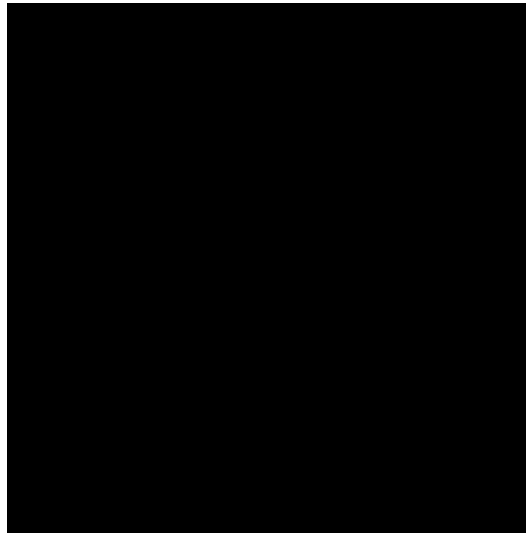
L^*/Y_{outp2} (absolute)	11.8/1.3	33.1/7.6	53.4/21.4	74.6/47.7	95.4/88.6	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*$ (relative)	w_{input}^*	w_{input}^*	w_{input}^*	w_{input}^*	w_{input}^*	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	0.000	0.250	0.500	0.750	1.000		
	0.0	0.254	0.497	0.751	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$



See for similar files: <http://www.ps.bam.de/CE32/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,1; iLRS; oLRS, CIE XYZ

BAM registration: 20040601-CE32/10L/L32E02FP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output, YI=0,0, XYZ

/CE32/ Form: 33/46, Serie: 1/1, Page: 33 Page count: 33

L^*/Y_{outp2} (absolute)	11.8/1.3	33.1/7.6	53.4/21.4	74.6/47.7	95.4/88.6	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	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	$N_0(\text{min.})$	$W_1(\text{max.})$
	w_{outp2}^* 0.0	0.254	0.497	0.751	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

L^*/Y_{outp2} (absolute)	11.8/1.3	33.1/7.6	53.4/21.4	74.6/47.7	95.4/88.6	N_0 (min.)	W_1 (max.)
$w^*=l^*_{\text{CIELAB}, r}$ (relative)	00,4	01,3	02,2	03,1	04,0	N_0 (min.)	W_1 (max.)
w^*_{input}	0,000	0,250	0,500	0,750	1,000	N_0 (min.)	W_1 (max.)
w^*_{outp2}	0.0	0.254	0.497	0.751	1.0	N_0 (min.)	W_1 (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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

L^*/Y_{outp2} (absolute)	11.8/1.3	33.1/7.6	53.4/21.4	74.6/47.7	95.4/88.6	N_0 (min.)	W_1 (max.)
$w^*=l^*$ (relative)	00,4	01,3	02,2	03,1	04,0	N_0 (min.)	W_1 (max.)
w_{input}^*	0,000	0,250	0,500	0,750	1,000		
w_{outp2}^*	0.0	0.254	0.497	0.751	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S3

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$



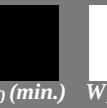
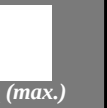
L^*/Y_{outp2} (absolute)	11.8/1.3	33.1/7.6	53.4/21.4	74.6/47.7	95.4/88.6	$N_0(\text{min.})$	$W_1(\text{max.})$
$w^*=l^*$ (relative)	00,4	01,3	02,2	03,1	04,0	$N_0(\text{min.})$	$W_1(\text{max.})$
w_{input}^*	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$
w_{outp2}^*	0.0	0.254	0.497	0.751	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

L^*/Y_{outp2} (absolute)	11.8/1.3	33.1/7.6	53.4/21.4	74.6/47.7	95.4/88.6	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*_{\text{CIELAB}, r}$ (relative)	w^*_{input}	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	0.254	0.497	0.751	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

L^*/Y_{outp2} (absolute)	11.8/1.3	33.1/7.6	53.4/21.4	74.6/47.7	95.4/88.6	$N_0(\text{min.})$	$W_1(\text{max.})$
							
	00,4	01,3	02,2	03,1	04,0		
$w^*=l^*_{\text{CIELAB}, r}$ (relative)	w^*_{input}	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	0.254	0.497	0.751	1.0		

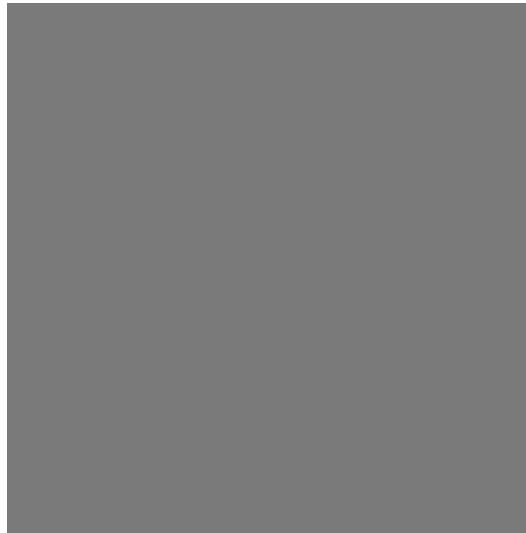
Calculations with luminance L of grey steps and white (w):
CIE luminance reflectance $Y = 88,6 L / L_w$
CIE lightness $L^* = 116 (Y/100)^{1/3} - 16$ for $Y > 0,866$
relative whiteness $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

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

BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S3

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$



L^*/Y_{outp2} (absolute)	11.8/1.3	33.1/7.6	53.4/21.4	74.6/47.7	95.4/88.6	$N_0(\text{min.})$	$W_1(\text{max.})$
$w^*=l^*$ (relative)	00,4	01,3	02,2	03,1	04,0	$N_0(\text{min.})$	$W_1(\text{max.})$
w^*_{input}	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$
w^*_{outp2}	0.0	0.254	0.497	0.751	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S3

input: $w^* \text{ setgray}$
output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$

See for similar files: <http://www.ps.bam.de/CE32/>
Technical information: <http://www.ps.bam.de>

Version 2.0, io=0,1; iLRS; oLRS; CIEXYZ

BAM registration: 20040601-CE32/10L/L32E09FP.PS/.PDF BAM material: code=th4ta
application for relative reproduction properties of achromatic device output, Y_i=0,0, XYZ

/CE32/ Form: 40/46, Serie: 1/1, Page: 40 Page count: 40

L^*/Y_{outp2} (absolute)	11.8/1.3	33.1/7.6	53.4/21.4	74.6/47.7	95.4/88.6	$N_0(\text{min.})$	$W_1(\text{max.})$
$w^*=l^*_{\text{CIELAB}, r}$ (relative)	00,4	01,3	02,2	03,1	04,0	$N_0(\text{min.})$	$W_1(\text{max.})$
w^*_{input}	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$
w^*_{outp2}	0.0	0.254	0.497	0.751	1.0	$N_0(\text{min.})$	$W_1(\text{max.})$

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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S3

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

output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$

See for similar files: <http://www.ps.bam.de/CE32/>
Technical information: <http://www.ps.bam.de> Version 2.0, io=0,1; iLRS; oLRS; CIEXYZ

BAM registration: 20040601-CE32/10L/L32E0AFP.PS/.PDF BAM material: code=th4ta
application for relative reproduction properties of achromatic device output, Y_i=0,0, XYZ
/CE32/ Form: 41/46, Serie: 1/1, Page: 41 Page count: 41

L^*/Y_{outp2} (absolute)	11.8/1.3	33.1/7.6	53.4/21.4	74.6/47.7	95.4/88.6	$N_0(\text{min.})$	$W_1(\text{max.})$
$w^*=l^*_{\text{CIELAB}, r}$ (relative)	00,4	01,3	02,2	03,1	04,0	$N_0(\text{min.})$	$W_1(\text{max.})$
w^*_{input}	0,000	0,250	0,500	0,750	1,000		
w^*_{outp2}	0.0	0.254	0.497	0.751	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

See for similar files: <http://www.ps.bam.de/CE32/>
Technical information: <http://www.ps.bam.de>

Version 2.0, io=0,1; iLRS; oLRS, CIE XYZ

BAM registration: 20040601-CE32/10L/L32E0BFP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output, $Y_i=0,0$, XYZ

/CE32/ Form: 42/46 Series 1/1, Page: 42 Page count: 42

L^*/Y_{outp2} (absolute)	11.8/1.3	33.1/7.6	53.4/21.4	74.6/47.7	95.4/88.6	$N_0(\text{min.})$	$W_1(\text{max.})$
$w^*=l^*$ (relative)	00,4	01,3	02,2	03,1	04,0	$N_0(\text{min.})$	$W_1(\text{max.})$
w_{input}^*	0,000	0,250	0,500	0,750	1,000	$N_0(\text{min.})$	$W_1(\text{max.})$
w_{outp2}^*	0.0	0.254	0.497	0.751	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

L^*/Y_{outp2} (absolute)	11.8/1.3	33.1/7.6	53.4/21.4	74.6/47.7	95.4/88.6	N_0 (min.)	W_1 (max.)
$w^*=l^*_{\text{CIELAB}, r}$ (relative)	00,4	01,3	02,2	03,1	04,0	N_0 (min.)	W_1 (max.)
w^*_{input}	0,000	0,250	0,500	0,750	1,000		
w^*_{outp2}	0.0	0.254	0.497	0.751	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 $w^* = (L^* - L^*_n) / (L^*_w - L^*_n)$

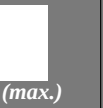
Picture A2: 5 visual equidistant L^* -grey steps; PS operator: $w^*_{\text{lin}} 1.0 \exp \text{ setgray}$

BAM-test chart no. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S3

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

output: $olv^* \text{ setrgbcolor} / w^* \text{ setgray}$

L^*/Y_{outp2} (absolute)	11.8/1.3	33.1/7.6	53.4/21.4	74.6/47.7	95.4/88.6	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^*_{input}	w^*_{input}	w^*_{input}	w^*_{input}	N_0 (min.)	W_1 (max.)
	0.000	0.250	0.500	0.750	1.000		
	w^*_{outp2}	w^*_{outp2}	w^*_{outp2}	w^*_{outp2}	w^*_{outp2}		
	0.0	0.254	0.497	0.751	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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S3

input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

See for similar files: <http://www.ps.bam.de/CE32/>
Technical information: <http://www.ps.bam.de>

Version 2.0, io=0,1; iLRS; oLRS, CIEXYZ

BAM registration: 20040601-CE32/10L/L32E0EFP.PS/.PDF BAM material: code=rha4ta
application for relative reproduction properties of achromatic device output, Y_I=0,0, XYZ

/CE32/ Form: 45/46, Serie: 1/1, Page: 45 Page count: 45

L^*/Y_{outp2} (absolute)	11.8/1.3	33.1/7.6	53.4/21.4	74.6/47.7	95.4/88.6	N_0 (min.)	W_1 (max.)
$w^*=l^*$ (relative)	00,4	01,3	02,2	03,1	04,0	N_0 (min.)	W_1 (max.)
w_{input}^*	0,000	0,250	0,500	0,750	1,000	N_0 (min.)	W_1 (max.)
w_{outp2}^*	0.0	0.254	0.497	0.751	1.0	N_0 (min.)	W_1 (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. CE32
Measurement test of 5 center luminances by 3 surrounds N,Z,W

Step: S3

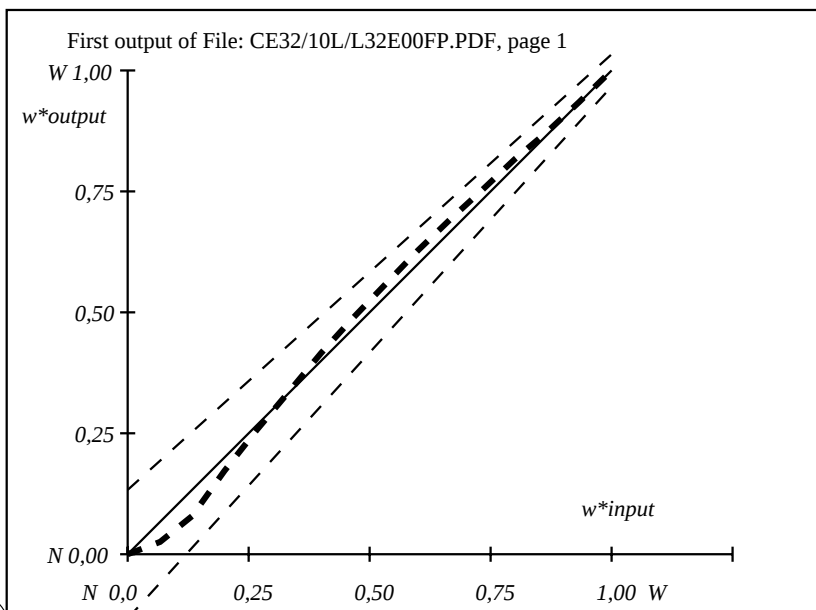
input: $w^* setgray$
output: $olv^* setrgbcolor / w^* setgray$

i	LAB*ref	LAB*out	LAB*out/c-ref	ΔE^*	Start output S1
1	11.82	0.0	0.0	0.01	Specification according to
2	17.4	0.0	0.0	3.44	ISO/IEC 15775 Annex G
3	22.97	0.0	0.0	4.56	and DIN 33866-1 Annex G
4	28.54	0.0	0.0	2.31	
5	34.11	0.0	0.0	0.79	
6	39.69	0.0	0.0	0.19	
7	45.26	0.0	0.0	1.35	
8	50.83	0.0	0.0	1.93	
9	56.41	0.0	0.0	2.1	
10	61.98	0.0	0.0	2.35	
11	67.55	0.0	0.0	2.17	
12	73.12	0.0	0.0	1.66	ΔL^* -gray variation
13	78.7	0.0	0.0	1.39	$v^* = 0.0$
14	84.27	0.0	0.0	0.55	
15	89.84	0.0	0.0	0.12	Mean lightness difference (16 steps)
16	95.41	0.0	0.0	0.01	$\Delta E^*_{CIELAB} = 1.6$
17	11.82	0.0	0.0	0.01	
18	32.72	0.0	0.0	1.17	
19	53.62	0.0	0.0	2.01	
20	74.52	0.0	0.0	1.59	Mean lightness difference (5 steps)
21	95.41	0.0	0.0	0.01	$\Delta L^*_{CIELAB} = 1.0$
Mean colour reproduction index: $R^*_{ab,m} = 93$					

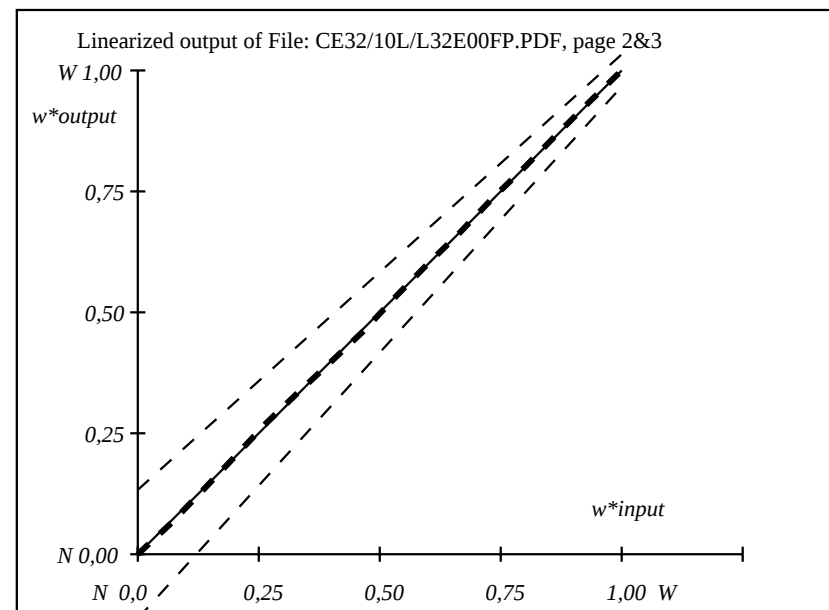
File: CE32/10L/L32E00FP.PDF, page 1; Device: Cinema Display; Date: 2004-08-01, Name

i	LAB*ref	LAB*out	LAB*out/c-ref	ΔE^*	linearized output S2&S3
1	11.9	0.0	0.0	0.01	Specification according to
2	17.47	0.0	0.0	0.36	ISO/IEC 15775 Annex G
3	23.03	0.0	0.0	0.21	and DIN 33866-1 Annex G
4	28.6	0.0	0.0	0.09	
5	34.17	0.0	0.0	0.5	
6	39.74	0.0	0.0	0.21	
7	45.3	0.0	0.0	0.12	
8	50.87	0.0	0.0	0.41	
9	56.44	0.0	0.0	0.07	
10	62.01	0.0	0.0	0.09	
11	67.57	0.0	0.0	0.03	
12	73.14	0.0	0.0	0.2	ΔL^* -gray variation
13	78.71	0.0	0.0	0.04	$v^* = 0.0$
14	84.28	0.0	0.0	0.19	
15	89.85	0.0	0.0	0.13	Mean lightness difference (16 steps)
16	95.41	0.0	0.0	0.01	$\Delta E^*_{CIELAB} = 0.2$
17	11.9	0.0	0.0	0.01	
18	32.78	0.0	0.0	0.4	
19	53.66	0.0	0.0	0.24	
20	74.53	0.0	0.0	0.16	Mean lightness difference (5 steps)
21	95.41	0.0	0.0	0.01	$\Delta L^*_{CIELAB} = 0.2$
Mean colour reproduction index: $R^*_{ab,m} = 99$					

File: CE32/10L/L32E00FP.PDF, page 2&3; Device: Cinema Display; Date: 2004-08-01, Name



File: CE32/10L/L32E00FP.PDF, page 1; Device: Cinema Display; Date: 2004-08-01, Name



File: CE32/10L/L32E00FP.PDF, page 2&3; Device: Cinema Display; Date: 2004-08-01, Name

BAM-test chart no. CE32

Measurement test of 5 center luminances by 3

Step: S1, S2&S3

input: w^* setgray

output: olv^* setrgbcolor / w^* setgray