

http://farbe.li.tu-berlin.de/AE78/AE78L0N1.TXT /PS; start output
N: no 3D-linearization (OL) in file (F) or PS-startup (S), page 1/1

Elementary colour and CIE illuminant		CIELAB data, CIE tristimulus values and CIE chromaticity for the CIE standard illuminants D65 and D50 and the 2 degree observer										
CIE-test colour	Illuminant	L*	a*	b*	C _{ab}	h _{ab}	X	Y	Z	x	y	
09, Red R 10, Yellow Y 11, Green G 12, Blue B	D65	40.04 81.30 52.27 30.52	58.98 -2.99 -42.40 1.21	28.32 71.82 13.64 -46.35	65.43 18.89 15.64 27.15	25.7 92.4 162.2 271.5	20.64 54.89 12.15 6.24	11.27 59.01 20.38 6.45	4.34 12.02 15.34 27.59	0.5693 0.4359 0.2538 0.1550	0.3110 0.4686 0.4258 0.1601	
09, Red R 10, Yellow Y 11, Green G 12, Blue B	D50	41.88 81.97 51.62 29.20	62.00 1.81 -41.12 -5.28	31.82 71.59 11.52 -49.34	69.69 71.61 42.70 26.39	27.2 88.5 164.4 263.9	23.31 58.84 12.10 5.25	12.42 60.24 19.81 5.92	3.24 9.50 11.95 21.25	0.5982 0.4576 0.2759 0.1621	0.3188 0.4685 0.4515 0.1825	

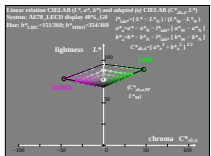
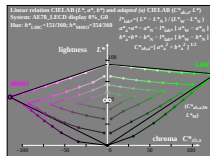
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Elementary colour and CIE illuminant		CIELAB data, CIE tristimulus values and CIE chromaticity for the CIE standard illuminants D65 and D50 and the 2 degree observer										
CIE-test colour	Illuminant	L*	a*	b*	C _{ab}	h _{ab}	X	Y	Z	x	y	
09, Red R_e 10, Yellow Y_e 11, Green G_e 12, Blue B_e	D65	40.04 81.30 52.27 30.52	58.98 -2.99 -42.40 1.21	28.32 71.82 13.64 -46.35	65.43 18.89 15.64 27.15	25.7 92.4 162.2 271.5	20.64 54.89 12.15 6.24	11.27 59.01 20.38 6.45	4.34 12.02 15.34 27.59	0.5693 0.4359 0.2538 0.1550	0.3110 0.4686 0.4258 0.1601	
09, Red R_e 10, Yellow Y_e 11, Green G_e 12, Blue B_e	D50	41.88 81.97 51.62 29.20	62.00 1.81 -41.12 -5.28	31.82 71.59 11.52 -49.34	69.69 71.61 42.70 26.39	27.2 88.5 164.4 263.9	23.31 58.84 12.10 5.25	12.42 60.24 19.81 5.92	3.24 9.50 11.95 21.25	0.5982 0.4576 0.2759 0.1621	0.3188 0.4685 0.4515 0.1825	

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Elementary colour and CIE illuminant		CIELAB data, CIE tristimulus values and CIE chromaticity for the CIE standard illuminants D65 and D50 and the 2 degree observer										
CIE-test colour	Illuminant	L*	a*	b*	C _{ab}	h _{ab}	X	Y	Z	x	y	
09, Red R=R_e 10, Yellow Y=Y_e 11, Green G=G_e 12, Blue B=B_e	D65	40.04 81.30 52.27 30.52	58.98 -2.99 -42.40 1.21	28.32 71.82 13.64 -46.35	65.43 18.89 15.64 27.15	25.7 92.4 162.2 271.5	20.64 54.89 12.15 6.24	11.27 59.01 20.38 6.45	4.34 12.02 15.34 27.59	0.5693 0.4359 0.2538 0.1550	0.3110 0.4686 0.4258 0.1601	
09, Red R=R_e 10, Yellow Y=Y_e 11, Green G=G_e 12, Blue B=B_e	D50	41.88 81.97 51.62 29.20	62.00 1.81 -41.12 -5.28	31.82 71.59 11.52 -49.34	69.69 71.61 42.70 26.39	27.2 88.5 164.4 263.9	23.31 58.84 12.10 5.25	12.42 60.24 19.81 5.92	3.24 9.50 11.95 21.25	0.5982 0.4576 0.2759 0.1621	0.3188 0.4685 0.4515 0.1825	

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TUB-test chart AE78; Examples of colour metric CIE data of elementary colours and device output

Agreement (Yes/No) of CIELAB h_{ab} with IEC 61966-2-1 and DIN 33872-X

h_{ab} for reference: device colours				NOTES	
	R_{dsRGB}	Y_{dsRGB}	G_{dsRGB}	B_{dsRGB}	visual standard deviation v_{sp}
definition for display output in IEC 61966-2-1	40 ± 4 40 ± 8	103 ± 4 103 ± 8	136 ± 4 136 ± 8	306 ± 8 306 ± 16	1 x v_{sp} 2 x v_{sp} see h_{ab} data Table D.3
measurement of printer output rgb in file	34 N(-2) 34 Y	100 Y 100 Y	146 N(+8) 146 N(+2)	264 N(-34) 264 N(-26)	1 x v_{sp} : 1 x Y 2 x v_{sp} : 2 x Y see page 9 of RES/REG10NP.PDF
measurement of printer output cmy0 in file	34 N(-2) 34 Y	100 Y 100 Y	153 N(+15) 153 N(+9)	300 Y 300 Y	1 x v_{sp} : 2 x Y 2 x v_{sp} : 3 x Y see page 9 of RES/REG10NP.PDF

h_{ab} for reference: elementary colours				NOTES visual standard deviation v_{sp}
R_e	Y_e	G_e	B_e	
26 ± 4	92 ± 4	162 ± 4	272 ± 8	1 x v_{sp}
26 ± 8	92 ± 8	162 ± 8	272 ± 16	2 x v_{sp}
definition for any output in DIN 33872-X				see h_{ab} data Table D.2
measurement of printer output	34 N(+4)	100 N(+4)	146 N(-12)	264 N(-4)
rgb in file	34 Y	100 Y	146 N(-8)	264 Y
measurement of printer output	34 N(+4)	100 N(+4)	153 N(-5)	300 N(+20)
cmy0 in file	34 Y	100 Y	153 N(-1)	300 N(+12)

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Agreement (Yes/No) of CIELAB h_{ab} with IEC 61966-2-1 and DIN 33872-X

h_{ab} for reference: device colours				NOTES	
	R_{dsRGB}	Y_{dsRGB}	G_{dsRGB}	B_{dsRGB}	visual standard deviation v_{sp}
definition for display output in IEC 61966-2-1	40 ± 4 40 ± 8	103 ± 4 103 ± 8	136 ± 4 136 ± 8	306 ± 8 306 ± 16	1 x v_{sp} 2 x v_{sp} see h_{ab} data Table D.3
measurement of printer output	34 N(-2)	100 Y	146 N(+8)	264 N(-34)	1 x v_{sp} 1 x Y
rgb in file http://farbe.li.it-berlin.de/REG1/REG10N.PDF see data on page 9/33	34 Y	100 Y	146 N(-2)	264 N(-26)	2 x v_{sp} 2 x Y
measurement of printer output	34 N(-2)	100 Y	153 N(+15)	300 Y	1 x v_{sp} 2 x Y
cmy0 in file http://farbe.li.it-berlin.de/REG1/REG10N.PDF see data on page 9/33	34 Y	100 Y	153 N(+9)	300 Y	2 x v_{sp} 3 x Y

h_{ab} for reference: elementary colours				NOTES visual standard deviation v_{sp}
R_e	Y_e	G_e	B_e	
26 ± 4	92 ± 4	162 ± 4	272 ± 8	1 x v_{sp}
26 ± 8	92 ± 8	162 ± 8	272 ± 16	2 x v_{sp}
definition for any output in DIN 33872-X				see h_{ab} data Table D.2
measurement of printer output	34 N(+4)	100 N(+4)	146 N(-12)	264 N(-4)
rgb in file http://farbe.ltu-berlin.de/REG1/REGIONLONP.PDF see data on page 9/33	34 Y	100 Y	146 N(-8)	264 Y
measurement of printer output	34 N(+4)	100 N(+4)	153 N(-5)	300 N(+20)
cmy0 in file http://farbe.ltu-berlin.de/REG3/REG3LONP.PDF see data on page 9/33	34 Y	100 Y	153 N(-1)	300 N(+12)

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input: w/rgb/cmyk → w/rgb/cmyk
output: no change

TUB registration: 20180401-AE78/AE78L0N1.TXT /PS
application for measurement of display output

TUB material: code=thata