

http://farbe.li.tu-berlin.de/AE78/AE78L0NP.PDF /.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	D65	40,04	58,98	28,32	65,43	25,7	20,64	11,27	4,34	0,5693	0,3110
10, Yellow Y		81,30	-2,99	71,82	71,89	92,4	54,89	59,01	12,02	0,4359	0,4686
11, Green G		52,27	-42,40	13,64	44,54	162,2	12,15	20,38	15,34	0,2538	0,4258
12, Blue B		30,52	1,21	-46,35	46,37	271,5	6,24	6,45	27,59	0,1550	0,1601
09, Red R	D50	41,88	62,00	31,82	69,69	27,2	23,31	12,42	3,24	0,5982	0,3188
10, Yellow Y		81,97	1,81	71,59	71,61	88,5	58,84	60,24	9,50	0,4576	0,4685
11, Green G		51,62	-41,12	11,52	42,70	164,4	12,10	19,81	11,95	0,2759	0,4515
12, Blue B		29,20	-5,28	-49,34	49,62	263,9	5,25	5,92	21,25	0,1621	0,1825

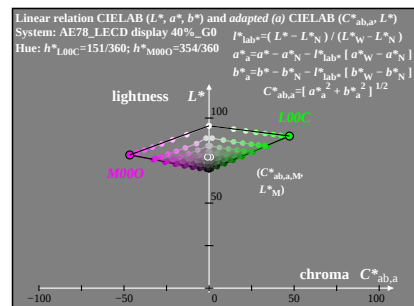
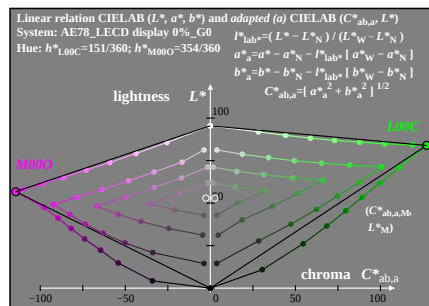
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Elementary colour and CIE illuminant		CIELAB data, CIE tristimulus values and CIE chromaticity for the CIE standard illuminants D65 and D50 and the 2 degree observer									
CIE-test colour	Illuminant	L*	a*	b*	C* _{ab}	h _{ab}	X	Y	Z	x	y
09, Red R_e	D65	40,04	58,98	28,32	65,43	25,7	20,64	11,27	4,34	0,5693	0,3110
10, Yellow Y_e		81,30	-2,99	71,82	71,89	92,4	54,89	59,01	12,02	0,4359	0,4686
11, Green G_e		52,27	-42,40	13,64	44,54	162,2	12,15	20,38	15,34	0,2538	0,4258
12, Blue B_e		30,52	1,21	-46,35	46,37	271,5	6,24	6,45	27,59	0,1550	0,1601
09, Red R_e	D50	41,88	62,00	31,82	69,69	27,2	23,31	12,42	3,24	0,5982	0,3188
10, Yellow Y_e		81,97	1,81	71,59	71,61	88,5	58,84	60,24	9,50	0,4576	0,4685
11, Green G_e		51,62	-41,12	11,52	42,70	164,4	12,10	19,81	11,95	0,2759	0,4515
12, Blue B_e		29,20	-5,28	-49,34	49,62	263,9	5,25	5,92	21,25	0,1621	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	D65	40,04	58,98	28,32	65,43	25,7	20,64	11,27	4,34	0,5693	0,3110
10, Yellow Y=Y_e		81,30	-2,99	71,82	71,89	92,4	54,89	59,01	12,02	0,4359	0,4686
11, Green G=G_e		52,27	-42,40	13,64	44,54	162,2	12,15	20,38	15,34	0,2538	0,4258
12, Blue B=B_e		30,52	1,21	-46,35	46,37	271,5	6,24	6,45	27,59	0,1550	0,1601
09, Red R=R_e	D50	41,88	62,00	31,82	69,69	27,2	23,31	12,42	3,24	0,5982	0,3188
10, Yellow Y=Y_e		81,97	1,81	71,59	71,61	88,5	58,84	60,24	9,50	0,4576	0,4685
11, Green G=G_e		51,62	-41,12	11,52	42,70	164,4	12,10	19,81	11,95	0,2759	0,4515
12, Blue B=B_e		29,20	-5,28	-49,34	49,62	263,9	5,25	5,92	21,25	0,1621	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		$R_{d,sRGB}$ $Y_{d,sRGB}$ $G_{d,sRGB}$ $B_{d,sRGB}$				NOTES visual standard deviation v_{SD}
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_{SD} 2 x v_{SD} 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_{SD} ; 1 x Y 2 x v_{SD} ; 2 x Y see page 9 of RE61/RE61L0NP.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_{SD} ; 2 x Y 2 x v_{SD} ; 3 x Y see page 9 of RE63/RE63L0NP.PDF
h_{ab} für reference: elementary colours		R_e Y_e G_e B_e				NOTES visual standard deviation v_{SD}
definition for any output in DIN 33872-X		26 ± 4 26 ± 8	92 ± 4 92 ± 8	162 ± 4 162 ± 8	272 ± 8 272 ± 16	1 x v_{SD} 2 x v_{SD} see h_{ab} data Table D.2
measurement of printer output rgb in file		34 N(+4) 34 Y	100 N(+4) 100 Y	146 N(-12) 146 N(-8)	264 N(-4) 264 Y	1 x v_{SD} ; 0 x Y 2 x v_{SD} ; 3 x Y see page 9 of RE61/RE61L0NP.PDF
measurement of printer output cmY0 in file		34 N(+4) 34 Y	100 N(+4) 100 Y	153 N(-5) 153 N(-1)	300 N(+20) 300 N(+12)	1 x v_{SD} ; 0 x Y 2 x v_{SD} ; 2 x Y see page 9 of RE63/RE63L0NP.PDF

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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		$R_{d,sRGB}$ $Y_{d,sRGB}$ $G_{d,sRGB}$ $B_{d,sRGB}$				NOTES visual standard deviation v_{SD}
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_{SD} 2 x v_{SD} 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_{SD} ; 1 x Y 2 x v_{SD} ; 2 x Y http://farbe.li.tu-berlin.de/RE61/RE61L0NP.PDF see data on page 9/33
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_{SD} ; 2 x Y 2 x v_{SD} ; 3 x Y http://farbe.li.tu-berlin.de/RE63/RE63L0NP.PDF see data on page 9/33
h_{ab} für reference: elementary colours		R_e Y_e G_e B_e				NOTES visual standard deviation v_{SD}
definition for any output in DIN 33872-X		26 ± 4 26 ± 8	92 ± 4 92 ± 8	162 ± 4 162 ± 8	272 ± 8 272 ± 16	1 x v_{SD} 2 x v_{SD} see h_{ab} data Table D.2
measurement of printer output rgb in file		34 N(+4) 34 Y	100 N(+4) 100 Y	146 N(-12) 146 N(-8)	264 N(-4) 264 Y	1 x v_{SD} ; 0 x Y 2 x v_{SD} ; 3 x Y http://farbe.li.tu-berlin.de/RE61/RE61L0NP.PDF see data on page 9/33
measurement of printer output cmY0 in file		34 N(+4) 34 Y	100 N(+4) 100 Y	153 N(-5) 153 N(-1)	300 N(+20) 300 N(+12)	1 x v_{SD} ; 0 x Y 2 x v_{SD} ; 2 x Y http://farbe.li.tu-berlin.de/RE63/RE63L0NP.PDF see data on page 9/33

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input: w/rgb/cmyk -> w/rgb/cmyk-
output: no change