

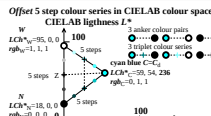
Colour stimuli according to ISO/IEC 15775 (offset) and of BAM-2005 test charts

Device (d) colours, see names in CIE R8-09, and ISO/IEC 15775	Offset printing (o) Tristimulus values			Offset printing (o) CIE LAB data			BAM-test charts CIE LAB data			ΔE^*_{ab}
	L^*_o	a^*_o	b^*_o	L^*_o	a^*_o	b^*_o	L^*_{da}	a^*_{da}	b^*_{da}	
C=C ₀ cyan blue (cyan)	18,74	26,62	68,54	58,62	-30,63	-42,75	58,09	-32,78	-44,14	2,62
M=M ₀ magenta red (magenta)	33,06	16,90	22,01	48,13	75,20	-6,80	46,88	75,30	-8,74	2,31
Y=Y ₀ yellow	66,06	67,10	9,03	90,37	-11,16	96,17	88,56	-6,91	95,35	4,69
O=O ₀ orange red (red)	33,13	16,75	2,68	47,94	65,31	52,07	50,78	66,45	53,75	3,49
L=L ₀ leaf green (green)	8,71	19,18	6,62	50,90	-62,96	36,71	49,24	-60,02	37,66	3,51
V=V ₀ violet blue (blue)	7,17	4,65	21,41	25,72	31,35	-44,36	26,18	32,61	-42,38	3,40
W white	83,69	88,60	89,47	95,41	-0,98	4,76	94,50	-1,38	5,57	1,28
N black	2,42	2,52	2,81	18,01	0,50	-0,46	19,14	4,32	0,26	4,95

Source: Kittmann (2005), Diploma work, TU Berlin

1-000030-1.0

rgb _d input and LCh* _{da} output of Offset colours	rgb _d	LCh* _{da}
Device colour	rgb _d	LCh* _{da}
C=C ₀ cyan blue (cyan)	0 11 59,54,236	
V=V ₀ violet blue (blue)	0 01 26,54,304	
M=M ₀ magenta red (magenta)	1 01 48,76,353	
O=O ₀ orange red (red)	1 00 48,83,37	
Y=Y ₀ yellow	1 10 90,92,96	
L=L ₀ leaf green (green)	0 10 51,72,150	
N black	0 00 95,0,0	
W white	1 11 18,0,0	



XE140-1

1-000030-1.0

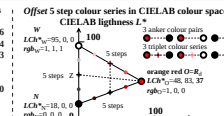
Colour stimuli according to ISO/IEC 15775 (offset) and of BAM-2005 test charts

Device (d) colours, see names in CIE R8-09, and ISO/IEC 15775	Offset printing (o) adapted (a) CIE LAB data					Samples of BAM-test charts adapted (a) CIE LAB data				
	L^*_{oa}	a^*_{oa}	b^*_{oa}	$C_{ab,oa}$	$h_{ab,oa}$	L^*_{da}	a^*_{da}	b^*_{da}	$C_{ab,da}$	$h_{ab,da}$
C=C ₀ cyan blue (cyan)	58.62	-30.35	-45.02	54.3	236	58.09	-34.15	-47.14	58.21	234
M=M ₀ magenta red (magenta)	48.13	75.27	-8.37	75.73	353	46.88	73.07	-10.95	73.89	351
Y=Y ₀ yellow	90.37	-10.27	91.74	92.32	96	88.56	-5.97	90.19	90.39	93
O=O ₀ orange red (red)	47.94	65.38	50.51	82.62	37	50.78	64.52	51.26	82.4	38
L=L ₀ leaf green (green)	50.9	-62.83	34.95	71.89	150	49.24	-62.06	35.27	71.18	150
V=V ₀ violet blue (blue)	25.72	30.99	-44.41	54.16	384	26.18	28.97	-43.27	52.08	383
W white	95.41	0.0	0.0	0.0	0	94.50	0.0	0.0	0.0	0
N black	18.01	0.0	0.0	0.0	0	19.14	0.0	0.0	0.0	0

Source: Kittmann (2005), Diploma work, TU Berlin

1-000030-1.0

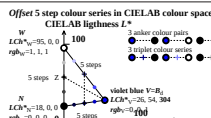
rgb _d input and LCh* _{da} output of Offset colours	rgb _d	LCh* _{da}
Device colour	rgb _d	LCh* _{da}
C=C ₀ cyan blue (cyan)	0 11 59,54,236	
V=V ₀ violet blue (blue)	0 01 26,54,304	
M=M ₀ magenta red (magenta)	1 01 48,76,353	
O=O ₀ orange red (red)	1 00 48,83,37	
Y=Y ₀ yellow	1 10 90,92,96	
L=L ₀ leaf green (green)	0 10 51,72,150	
N black	0 00 95,0,0	
W white	1 11 18,0,0	



XE141-1

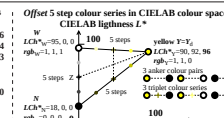
1-000030-1.0

rgb _d input and LCh* _{da} output of Offset colours	rgb _d	LCh* _{da}
Device colour	rgb _d	LCh* _{da}
C=C ₀ cyan blue (cyan)	0 11 59,54,236	
V=V ₀ violet blue (blue)	0 01 26,54,304	
M=M ₀ magenta red (magenta)	1 01 48,76,353	
O=O ₀ orange red (red)	1 00 48,83,37	
Y=Y ₀ yellow	1 10 90,92,96	
L=L ₀ leaf green (green)	0 10 51,72,150	
N black	0 00 95,0,0	
W white	1 11 18,0,0	



XE140-5N

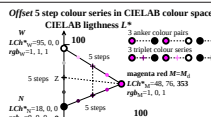
rgb _d input and LCh* _{da} output of Offset colours	rgb _d	LCh* _{da}
Device colour	rgb _d	LCh* _{da}
C=C ₀ cyan blue (cyan)	0 11 59,54,236	
V=V ₀ violet blue (blue)	0 01 26,54,304	
M=M ₀ magenta red (magenta)	1 01 48,76,353	
O=O ₀ orange red (red)	1 00 48,83,37	
Y=Y ₀ yellow	1 10 90,92,96	
L=L ₀ leaf green (green)	0 10 51,72,150	
N black	0 00 95,0,0	
W white	1 11 18,0,0	



XE141-5N

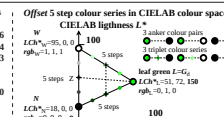
1-000030-1.0

rgb _d input and LCh* _{da} output of Offset colours	rgb _d	LCh* _{da}
Device colour	rgb _d	LCh* _{da}
C=C ₀ cyan blue (cyan)	0 11 59,54,236	
V=V ₀ violet blue (blue)	0 01 26,54,304	
M=M ₀ magenta red (magenta)	1 01 48,76,353	
O=O ₀ orange red (red)	1 00 48,83,37	
Y=Y ₀ yellow	1 10 90,92,96	
L=L ₀ leaf green (green)	0 10 51,72,150	
N black	0 00 95,0,0	
W white	1 11 18,0,0	



XE140-7N

rgb _d input and LCh* _{da} output of Offset colours	rgb _d	LCh* _{da}
Device colour	rgb _d	LCh* _{da}
C=C ₀ cyan blue (cyan)	0 11 59,54,236	
V=V ₀ violet blue (blue)	0 01 26,54,304	
M=M ₀ magenta red (magenta)	1 01 48,76,353	
O=O ₀ orange red (red)	1 00 48,83,37	
Y=Y ₀ yellow	1 10 90,92,96	
L=L ₀ leaf green (green)	0 10 51,72,150	
N black	0 00 95,0,0	
W white	1 11 18,0,0	



XE141-7N

1-000030-1.0

TUB-test chart XE14; Offset colour series
rgb_d input and LCh*_{da} device colour output in CIE LAB colour space

input: w/rgb/cmyk -> w/rgb/cmyk-