http://farbe.li.tu-berlin.de/eep6/eep6l0n1.txt /.ps; only vector graphic VG; start output
see similar files: http://farbe.li.tu-berlin.de/eep6/eep6.htm

Equal 9 step grey scaling between L^*_{0aN}=14.4 and L^*_{0aW}=95.9, Y_{0ref}=3.6, normalisation white W

L^*_{0aN}=14.4, L^*_{0aU}=55.2, L^*_{0aW}=96.0, Y_{0aN}=1.8, Y_{0aU}=23.1, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=50.0
L^*_{taN}=27.3, L^*_{taU}=57.7, L^*_{taW}=96.0, Y_{taN}=5.2, Y_{taU}=25.7, Y_{taW}=90.0, C_{taY}=Y_{taW}:Y_{taN}=17.3

Regularity index according to ISO/IEC 15775:2022, annex G for 5 and 9 steps

g^* = 100 [ΔL^*_{min}] / [ΔL^*_{max}], L^*_{CIELAB} = 116 [Y/Y_n]$^{1/3}$ – 16 with Y >= 0,882, Y_n=100

L^*_{CIELAB} n0, i	intended output L^*0a	L^*0r	Y0a	Y0r	real output L^*ta	ΔL^*ta	L^*tr	Yta	(L*tr)$^{1.18}$	g^*_5 = 99, g^*_9 = 99 linearized output L^*la	ΔL^*la	g^*_5 = 67, g^*_9 = 59	L^*la	ΔL^*la	g^*_5 = 96, g^*_9 = 95
9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0					
						9.8					8.4	1.0	90.0	1.0	96.0
8	85.8	0.875	67.6	0.746	86.2		0.858	68.4	0.878	87.6		0.858	68.4	0.878	87.6
						9.7					8.5				
7	75.6	0.75	49.2	0.538	76.5		0.717	50.8	0.754	79.1		0.717	50.8	0.754	79.1
						9.5					8.6				
6	65.4	0.625	34.5	0.371	67.0		0.579	36.7	0.628	70.4		0.579	36.7	0.628	70.4
						9.3					8.7				
5	55.2	0.5	23.1	0.242	57.5		0.443	25.7	0.501	61.7		0.443	25.7	0.501	61.7
						8.9					8.8				
4	45.0	0.375	14.5	0.144	48.8		0.313	17.4	0.373	52.9		0.313	17.4	0.373	52.9
						8.3					8.7				
3	34.8	0.25	8.4	0.075	40.5		0.192	11.5	0.246	44.2		0.192	11.5	0.246	44.2
						7.4					8.5				
2	24.6	0.125	4.3	0.028	33.1		0.085	7.6	0.123	35.7		0.085	7.6	0.123	35.7
						5.8					8.4				
1	14.4	0.0	1.8	0.0	27.3		0.0	5.2	0.0	27.3		0.0	5.2	0.0	27.3

ΔL^*_{0a}=10.2 (i=1,2,...,8) normalisation: Y_{taiW}=Y_{0aW} $\frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$

eep6l0−3n

Equal 9 step grey scaling between L^*_{0aN}=14.4 and L^*_{0aW}=95.9, Y_{0ref}=0.9, normalisation white W

L^*_{0aN}=14.4, L^*_{0aU}=55.2, L^*_{0aW}=96.0, Y_{0aN}=1.8, Y_{0aU}=23.1, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=50.0
L^*_{taN}=18.7, L^*_{taU}=55.9, L^*_{taW}=96.0, Y_{taN}=2.7, Y_{taU}=23.8, Y_{taW}=90.0, C_{taY}=Y_{taW}:Y_{taN}=33.6

Regularity index according to ISO/IEC 15775:2022, annex G for 5 and 9 steps

g^* = 100 [ΔL^*_{min}] / [ΔL^*_{max}], L^*_{CIELAB} = 116 [Y/Y_n]$^{1/3}$ – 16 with Y >= 0,882, Y_n=100

L^*_{CIELAB} n0, i	intended output L^*0a	L^*0r	Y0a	Y0r	real output L^*ta	ΔL^*ta	L^*tr	Yta	(L*tr)$^{1.06}$	g^*_5 = 99, g^*_9 = 99 linearized output L^*la	ΔL^*la	g^*_5 = 87, g^*_9 = 83	L^*la	ΔL^*la	g^*_5 = 98, g^*_9 = 97
9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0					
						10.1					9.6	1.0	90.0	1.0	96.0
8	85.8	0.875	67.6	0.746	85.9		0.869	67.8	0.876	86.4		0.869	67.8	0.876	86.4
						10.0					9.6				
7	75.6	0.75	49.2	0.538	75.8		0.739	49.6	0.751	76.8		0.739	49.6	0.751	76.8
						10.0					9.7				
6	65.4	0.625	34.5	0.371	65.8		0.61	35.1	0.626	67.1		0.61	35.1	0.626	67.1
						9.9					9.7				
5	55.2	0.5	23.1	0.242	55.9		0.481	23.8	0.5	57.4		0.481	23.8	0.5	57.4
						9.8					9.8				
4	45.0	0.375	14.5	0.144	46.0		0.354	15.3	0.374	47.6		0.354	15.3	0.374	47.6
						9.6					9.7				
3	34.8	0.25	8.4	0.075	36.4		0.229	9.2	0.248	37.8		0.229	9.2	0.248	37.8
						9.2					9.6				
2	24.6	0.125	4.3	0.028	27.1		0.109	5.1	0.123	28.2		0.109	5.1	0.123	28.2
						8.4					9.5				
1	14.4	0.0	1.8	0.0	18.7		0.0	2.7	0.0	18.7		0.0	2.7	0.0	18.7

ΔL^*_{0a}=10.2 (i=1,2,...,8) normalisation: Y_{taiW}=Y_{0aW} $\frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$

eep6l−3n

Equal 9 step grey scaling between L^*_{0aN}=14.4 and L^*_{0aW}=95.9, Y_{0ref}=0.4, normalisation white W

L^*_{0aN}=14.4, L^*_{0aU}=55.2, L^*_{0aW}=96.0, Y_{0aN}=1.8, Y_{0aU}=23.1, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=50.0
L^*_{taN}=16.5, L^*_{taU}=55.5, L^*_{taW}=96.0, Y_{taN}=2.2, Y_{taU}=23.4, Y_{taW}=90.0, C_{taY}=Y_{taW}:Y_{taN}=41.1

Regularity index according to ISO/IEC 15775:2022, annex G for 5 and 9 steps

g^* = 100 [ΔL^*_{min}] / [ΔL^*_{max}], L^*_{CIELAB} = 116 [Y/Y_n]$^{1/3}$ – 16 with Y >= 0,882, Y_n=100

L^*_{CIELAB} n0, i	intended output L^*0a	L^*0r	Y0a	Y0r	real output L^*ta	ΔL^*ta	L^*tr	Yta	(L*tr)$^{1.03}$	g^*_5 = 93, g^*_9 = 91 linearized output L^*la	ΔL^*la	g^*_5 = 99, g^*_9 = 99	L^*la	ΔL^*la	g^*_5 = 98, g^*_9 = 98
9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0					
						10.1					9.9	1.0	90.0	1.0	96.0
8	85.8	0.875	67.6	0.746	85.8		0.872	67.7	0.875	86.1		0.872	67.7	0.875	86.1
						10.1					9.9				
7	75.6	0.75	49.2	0.538	75.7		0.745	49.4	0.75	76.1		0.745	49.4	0.75	76.1
						10.1					9.9				
6	65.4	0.625	34.5	0.371	65.6		0.618	34.8	0.625	66.2		0.618	34.8	0.625	66.2
						10.1					10.0				
5	55.2	0.5	23.1	0.242	55.5		0.491	23.4	0.5	56.2		0.491	23.4	0.5	56.2
						10.0					10.0				
4	45.0	0.375	14.5	0.144	45.5		0.365	14.9	0.374	46.2		0.365	14.9	0.374	46.2
						9.9					10.0				
3	34.8	0.25	8.4	0.075	35.5		0.24	8.8	0.248	36.2		0.24	8.8	0.248	36.2
						9.7					9.9				
2	24.6	0.125	4.3	0.028	25.8		0.117	4.7	0.124	26.3		0.117	4.7	0.124	26.3
						9.3					9.8				
1	14.4	0.0	1.8	0.0	16.5		0.0	2.2	0.0	16.5		0.0	2.2	0.0	16.5

ΔL^*_{0a}=10.2 (i=1,2,...,8) normalisation: Y_{taiW}=Y_{0aW} $\frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$

eep6l−7n

Equal 9 step grey scaling between L^*_{0aN}=14.4 and L^*_{0aW}=95.9, Y_{0ref}=1.8, normalisation white W

L^*_{0aN}=14.4, L^*_{0aU}=55.2, L^*_{0aW}=96.0, Y_{0aN}=1.8, Y_{0aU}=23.1, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=50.0
L^*_{taN}=22.0, L^*_{taU}=56.5, L^*_{taW}=96.0, Y_{taN}=3.5, Y_{taU}=24.4, Y_{taW}=90.0, C_{taY}=Y_{taW}:Y_{taN}=25.5

Regularity index according to ISO/IEC 15775:2022, annex G for 5 and 9 steps

g^* = 100 [ΔL^*_{min}] / [ΔL^*_{max}], L^*_{CIELAB} = 116 [Y/Y_n]$^{1/3}$ – 16 with Y >= 0,882, Y_n=100

L^*_{CIELAB} n0, i	intended output L^*0a	L^*0r	Y0a	Y0r	real output L^*ta	ΔL^*ta	L^*tr	Yta	(L*tr)$^{1/1.1}$	g^*_5 = 79, g^*_9 = 72 linearized output L^*la	ΔL^*la	g^*_5 = 99, g^*_9 = 99	L^*la	ΔL^*la	g^*_5 = 97, g^*_9 = 96
9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0					
						10.0					9.1	1.0	90.0	1.0	96.0
8	85.8	0.875	67.6	0.746	86.0		0.865	68.0	0.877	86.9		0.865	68.0	0.877	86.9
						9.9					9.2				
7	75.6	0.75	49.2	0.538	76.1		0.731	50.0	0.753	77.7		0.731	50.0	0.753	77.7
						9.8					9.3				
6	65.4	0.625	34.5	0.371	66.2		0.598	35.6	0.627	68.4		0.598	35.6	0.627	68.4
						9.7					9.3				
5	55.2	0.5	23.1	0.242	56.5		0.466	24.4	0.501	59.1		0.466	24.4	0.501	59.1
						9.5					9.4				
4	45.0	0.375	14.5	0.144	47.0		0.337	16.0	0.374	49.7		0.337	16.0	0.374	49.7
						9.2					9.4				
3	34.8	0.25	8.4	0.075	37.8		0.213	10.0	0.247	40.3		0.213	10.0	0.247	40.3
						8.5					9.2				
2	24.6	0.125	4.3	0.028	29.3		0.098	6.0	0.122	31.1		0.098	6.0	0.122	31.1
						7.3					9.1				
1	14.4	0.0	1.8	0.0	22.0		0.0	3.5	0.0	22.0		0.0	3.5	0.0	22.0

ΔL^*_{0a}=10.2 (i=1,2,...,8) normalisation: Y_{taiW}=Y_{0aW} $\frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$

eep6l−7n

Test chart eep6; Equal 9 step grey scaling for four display reflections Y_{ref}= 3,6, 0,4, 0,9, 1,8, and black $L^*_{N,CIELAB}$=14.4, Y_N=1.8 and white $L^*_{W,CIELAB}$=95.99, Y_W=90, normalisation: white W

see similar files of the whole serie: http://farbe.li.tu-berlin.de/eeps.htm
technical information: http://farbe.li.tu-berlin.de or http://color.li.tu-berlin.de

TUB registration: 20230701-eep6/eep6l0n1.txt /.ps
application for evaluation and measurement of display or print output

TUB material: code=rha4ta