http://farbe.li.tu-berlin.de/eep2/eep2l0n1.txt /.ps; only vector graphic VG; start output
see similar files: http://farbe.li.tu-berlin.de/eep2/eep2.htm

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

L^*_{0aN}=3.6, L^*_{0aU}=49.8, L^*_{0aW}=96.0, Y_{0aN}=0.4, Y_{0aU}=18.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=225.0
L^*_{taN}=23.2, L^*_{taU}=53.0, L^*_{taW}=96.0, Y_{taN}=3.8, Y_{taU}=21.0, Y_{taW}=90.0, C_{taY}=Y_{taW}:Y_{taN}=23.4

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

g^*_5 = 99, g^*_9 = 99 | g^*_5 = 51, g^*_9 = 40 | g^*_5 = 91, g^*_9 = 89

L^*_{CIELAB}	n0. i	intended output L^*0a	L^*0r	$Y0a$	$Y0r$	real output L^*ta	ΔL^*ta	L^*tr	Yta	$(L^*tr)^{1/1.3}$	linearized output L^*la	ΔL^*la
100	9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0	
							11.0					8.6
	8	84.4	0.875	64.9	0.72	84.9		0.848	65.9	0.881	87.3	
							10.9					8.9
75	7	72.9	0.75	45.0	0.498	74.0		0.698	46.7	0.759	78.5	
							10.7					9.2
	6	61.3	0.625	29.6	0.326	63.3		0.551	32.0	0.633	69.3	
							10.3					9.4
50	5	49.8	0.5	18.2	0.199	53.0		0.409	21.0	0.504	59.9	
							9.7					9.6
	4	38.2	0.375	10.2	0.11	43.2		0.275	13.3	0.372	50.2	
							8.7					9.6
25	3	26.7	0.25	5.0	0.051	34.5		0.156	8.3	0.24	40.7	
							6.9					8.9
	2	15.2	0.125	1.9	0.017	27.6		0.061	5.3	0.118	31.7	
							4.5					8.6
0	1	3.6	0.0	0.4	0.0	23.2		0.0	3.8	0.0	23.2	

ΔL^*_{0a}=11.5 (i=1,2,...,8) **normalisation:** $Y_{taiW} = Y_{0aW} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$

eep20−3n

Equal 9 step grey scaling between L^*_{0aN}=3.6 and L^*_{0aW}=95.9, Y_{0ref}=0.9, normalisation white W

L^*_{0aN}=3.6, L^*_{0aU}=49.8, L^*_{0aW}=96.0, Y_{0aN}=0.4, Y_{0aU}=18.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=225.0
L^*_{taN}=11.2, L^*_{taU}=50.6, L^*_{taW}=96.0, Y_{taN}=1.3, Y_{taU}=19.0, Y_{taW}=90.0, C_{taY}=Y_{taW}:Y_{taN}=69.9

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

g^*_5 = 99, g^*_9 = 99 | g^*_5 = 78, g^*_9 = 70 | g^*_5 = 95, g^*_9 = 93

L^*_{CIELAB}	n0. i	intended output L^*0a	L^*0r	$Y0a$	$Y0r$	real output L^*ta	ΔL^*ta	L^*tr	Yta	$(L^*tr)^{1/1.11}$	linearized output L^*la	ΔL^*la
100	9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0	
							11.4					10.4
	8	84.4	0.875	64.9	0.72	84.6		0.865	65.2	0.878	85.6	
							11.4					10.5
75	7	72.9	0.75	45.0	0.498	73.2		0.731	45.4	0.754	75.1	
							11.3					10.6
	6	61.3	0.625	29.6	0.326	61.9		0.598	30.2	0.629	64.5	
							11.2					10.8
50	5	49.8	0.5	18.2	0.199	50.6		0.465	19.0	0.502	53.7	
							11.0					10.9
	4	38.2	0.375	10.2	0.11	39.6		0.335	11.0	0.373	42.9	
							10.6					10.9
25	3	26.7	0.25	5.0	0.051	29.0		0.21	5.8	0.245	32.0	
							9.7					10.6
	2	15.2	0.125	1.9	0.017	19.3		0.095	2.8	0.12	21.4	
							8.1					10.2
0	1	3.6	0.0	0.4	0.0	11.2		0.0	1.3	0.0	11.2	

ΔL^*_{0a}=11.5 (i=1,2,...,8) **normalisation:** $Y_{taiW} = Y_{0aW} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$

eep21−3n

Equal 9 step grey scaling between L^*_{0aN}=3.6 and L^*_{0aW}=95.9, Y_{0ref}=0.4, normalisation white W

L^*_{0aN}=3.6, L^*_{0aU}=49.8, L^*_{0aW}=96.0, Y_{0aN}=0.4, Y_{0aU}=18.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=225.0
L^*_{taN}=7.2, L^*_{taU}=50.2, L^*_{taW}=96.0, Y_{taN}=0.8, Y_{taU}=18.6, Y_{taW}=90.0, C_{taY}=Y_{taW}:Y_{taN}=113.0

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

g^*_5 = 99, g^*_9 = 99 | g^*_5 = 89, g^*_9 = 86 | g^*_5 = 97, g^*_9 = 97

L^*_{CIELAB}	n0. i	intended output L^*0a	L^*0r	$Y0a$	$Y0r$	real output L^*ta	ΔL^*ta	L^*tr	Yta	$(L^*tr)^{1/1.05}$	linearized output L^*la	ΔL^*la
100	9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0	
							11.5					11.0
	8	84.4	0.875	64.9	0.72	84.5		0.871	65.0	0.876	85.0	
							11.5					11.0
75	7	72.9	0.75	45.0	0.498	73.0		0.741	45.2	0.752	73.9	
							11.4					11.1
	6	61.3	0.625	29.6	0.326	61.6		0.612	29.9	0.626	62.8	
							11.4					11.2
50	5	49.8	0.5	18.2	0.199	50.2		0.484	18.6	0.501	51.6	
							11.3					11.2
	4	38.2	0.375	10.2	0.11	38.9		0.357	10.6	0.374	40.4	
							11.1					11.2
25	3	26.7	0.25	5.0	0.051	27.8		0.231	5.4	0.248	29.2	
							10.6					11.0
	2	15.2	0.125	1.9	0.017	17.1		0.112	2.3	0.124	18.2	
							9.9					11.0
0	1	3.6	0.0	0.4	0.0	7.2		0.0	0.8	0.0	7.2	

ΔL^*_{0a}=11.5 (i=1,2,...,8) **normalisation:** $Y_{taiW} = Y_{0aW} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$

eep20−7n

Equal 9 step grey scaling between L^*_{0aN}=3.6 and L^*_{0aW}=95.9, Y_{0ref}=1.8, normalisation white W

L^*_{0aN}=3.6, L^*_{0aU}=49.8, L^*_{0aW}=96.0, Y_{0aN}=0.4, Y_{0aU}=18.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=225.0
L^*_{taN}=16.3, L^*_{taU}=51.4, L^*_{taW}=96.0, Y_{taN}=2.1, Y_{taU}=19.7, Y_{taW}=90.0, C_{taY}=Y_{taW}:Y_{taN}=41.7

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

g^*_5 = 99, g^*_9 = 99 | g^*_5 = 65, g^*_9 = 55 | g^*_5 = 92, g^*_9 = 90

L^*_{CIELAB}	n0. i	intended output L^*0a	L^*0r	$Y0a$	$Y0r$	real output L^*ta	ΔL^*ta	L^*tr	Yta	$(L^*tr)^{1/1.19}$	linearized output L^*la	ΔL^*la
100	9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0	
							11.3					9.6
	8	84.4	0.875	64.9	0.72	84.7		0.858	65.4	0.879	86.4	
							11.2					9.8
75	7	72.9	0.75	45.0	0.498	73.5		0.717	45.9	0.757	76.6	
							11.1					10.0
	6	61.3	0.625	29.6	0.326	62.4		0.578	30.8	0.631	66.6	
							10.9					10.2
50	5	49.8	0.5	18.2	0.199	51.4		0.441	19.7	0.503	56.4	
							10.6					10.4
	4	38.2	0.375	10.2	0.11	40.9		0.309	11.8	0.373	46.0	
							9.9					10.4
25	3	26.7	0.25	5.0	0.051	31.0		0.185	6.6	0.242	35.6	
							8.5					9.9
	2	15.2	0.125	1.9	0.017	22.5		0.078	3.7	0.118	25.7	
							6.2					9.4
0	1	3.6	0.0	0.4	0.0	16.3		0.0	2.1	0.0	16.3	

ΔL^*_{0a}=11.5 (i=1,2,...,8) **normalisation:** $Y_{taiW} = Y_{0aW} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$

eep21−7n

Test chart eep2; Equal 9 step grey scaling for four display reflections Y_{ref}= 3,6, 0,4, 0,9, 1,8, and black $L^*_{N,CIELAB}$=3.61, Y_N=0.4 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-eep2/eep20n1.txt, /.ps
application for evaluation and measurement of display or print output

TUB material: code=rha4ta