Equal 9 step grey scaling between L^*_{0aN}=8.1 and L^*_{0aW}=95.9, Y_{0ref}=3.6, normalisation white *W*

L^*_{0aN}=8.1, L^*_{0aU}=52.1, L^*_{0aW}=96.0, Y_{0aN}=0.9, Y_{0aU}=20.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=99.9
L^*_{taN}=24.7, L^*_{taU}=54.9, L^*_{taW}=96.0, Y_{taN}=4.3, Y_{taU}=22.9, Y_{taW}=90.0, C_{taY}=Y_{taW}:Y_{taN}=20.8

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}		intended output				real output					linearized output	
		g^*_5= 99, g^*_9= 99				g^*_5= 58, g^*_9= 47					g^*_5= 93, g^*_9= 91	
	n0. i	L*0a	L*0r	Y0a	Y0r	L*ta	ΔL*ta	L*tr	Yta	(L*tr)$^{1/1.25}$	L*la	ΔL*la
100	9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0	
							10.5					8.6
	8	85.0	0.875	66.0	0.731	85.5		0.852	66.9	0.88	87.4	
							10.4					8.8
75	7	74.0	0.75	46.7	0.515	75.1		0.707	48.4	0.757	78.7	
							10.2					9.0
	6	63.0	0.625	31.6	0.345	64.9		0.563	33.9	0.631	69.7	
							9.9					9.1
50	5	52.1	0.5	20.2	0.217	54.9		0.424	22.9	0.502	60.5	
							9.4					9.3
	4	41.1	0.375	11.9	0.124	45.5		0.292	14.9	0.372	51.3	
							8.6					9.2
25	3	30.1	0.25	6.3	0.06	36.9		0.171	9.5	0.243	42.0	
							7.2					8.8
	2	19.1	0.125	2.8	0.021	29.7		0.07	6.1	0.119	33.2	
							5.0					8.5
0	1	8.1	0.0	0.9	0.0	24.7		0.0	4.3	0.0	24.7	

ΔL^*_{0a}=11.0 (i=1,2,...,8)

normalisation: Y_{taiW}=Y_{0aW} $\frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$

eep40−3n

Equal 9 step grey scaling between L^*_{0aN}=8.1 and L^*_{0aW}=95.9, Y_{0ref}=0.9, normalisation white *W*

L^*_{0aN}=8.1, L^*_{0aU}=52.1, L^*_{0aW}=96.0, Y_{0aN}=0.9, Y_{0aU}=20.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=99.9
L^*_{taN}=14.3, L^*_{taU}=52.8, L^*_{taW}=96.0, Y_{taN}=1.8, Y_{taU}=20.9, Y_{taW}=90.0, C_{taY}=Y_{taW}:Y_{taN}=50.5

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}		intended output				real output					linearized output	
		g^*_5= 99, g^*_9= 99				g^*_5= 81, g^*_9= 74					g^*_5= 96, g^*_9= 94	
	n0. i	L*0a	L*0r	Y0a	Y0r	L*ta	ΔL*ta	L*tr	Yta	(L*tr)$^{1/1.09}$	L*la	ΔL*la
100	9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0	
							10.9					10.0
	8	85.0	0.875	66.0	0.731	85.1		0.867	66.3	0.877	86.0	
							10.8					10.1
75	7	74.0	0.75	46.7	0.515	74.3		0.734	47.2	0.753	75.8	
							10.8					10.2
	6	63.0	0.625	31.6	0.345	63.5		0.602	32.2	0.628	65.6	
							10.7					10.3
50	5	52.1	0.5	20.2	0.217	52.8		0.472	20.9	0.502	55.3	
							10.5					10.4
	4	41.1	0.375	11.9	0.124	42.3		0.343	12.7	0.374	44.9	
							10.2					10.4
25	3	30.1	0.25	6.3	0.06	32.0		0.217	7.1	0.246	34.4	
							9.6					10.3
	2	19.1	0.125	2.8	0.021	22.4		0.099	3.6	0.12	24.1	
							8.1					9.8
0	1	8.1	0.0	0.9	0.0	14.3		0.0	1.8	0.0	14.3	

ΔL^*_{0a}=11.0 (i=1,2,...,8)

normalisation: Y_{taiW}=Y_{0aW} $\frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$

eep41−3n

Equal 9 step grey scaling between L^*_{0aN}=8.1 and L^*_{0aW}=95.9, Y_{0ref}=0.4, normalisation white *W*

L^*_{0aN}=8.1, L^*_{0aU}=52.1, L^*_{0aW}=96.0, Y_{0aN}=0.9, Y_{0aU}=20.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=99.9
L^*_{taN}=11.2, L^*_{taU}=52.4, L^*_{taW}=96.0, Y_{taN}=1.3, Y_{taU}=20.5, Y_{taW}=90.0, C_{taY}=Y_{taW}:Y_{taN}=69.5

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}		intended output				real output					linearized output	
		g^*_5= 99, g^*_9= 99				g^*_5= 90, g^*_9= 86					g^*_5= 97, g^*_9= 96	
	n0. i	L*0a	L*0r	Y0a	Y0r	L*ta	ΔL*ta	L*tr	Yta	(L*tr)$^{1/1.04}$	L*la	ΔL*la
100	9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0	
							10.9					10.5
	8	85.0	0.875	66.0	0.731	85.1		0.871	66.1	0.876	85.5	
							10.9					10.5
75	7	74.0	0.75	46.7	0.515	74.1		0.742	46.9	0.752	74.9	
							10.9					10.6
	6	63.0	0.625	31.6	0.345	63.3		0.614	31.9	0.627	64.3	
							10.8					10.7
50	5	52.1	0.5	20.2	0.217	52.4		0.486	20.5	0.501	53.7	
							10.8					10.7
	4	41.1	0.375	11.9	0.124	41.6		0.358	12.3	0.374	43.0	
							10.6					10.7
25	3	30.1	0.25	6.3	0.06	31.0		0.233	6.6	0.248	32.2	
							10.3					10.6
	2	19.1	0.125	2.8	0.021	20.7		0.111	3.2	0.122	21.6	
							9.4					10.3
0	1	8.1	0.0	0.9	0.0	11.2		0.0	1.3	0.0	11.2	

ΔL^*_{0a}=11.0 (i=1,2,...,8)

normalisation: Y_{taiW}=Y_{0aW} $\frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$

eep40−7n

Equal 9 step grey scaling between L^*_{0aN}=8.1 and L^*_{0aW}=95.9, Y_{0ref}=1.8, normalisation white *W*

L^*_{0aN}=8.1, L^*_{0aU}=52.1, L^*_{0aW}=96.0, Y_{0aN}=0.9, Y_{0aU}=20.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=99.9
L^*_{taN}=18.6, L^*_{taU}=53.6, L^*_{taW}=96.0, Y_{taN}=2.6, Y_{taU}=21.6, Y_{taW}=90.0, C_{taY}=Y_{taW}:Y_{taN}=34.0

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

L^*_{CIELAB}		intended output				real output					linearized output	
		g^*_5= 99, g^*_9= 99				g^*_5= 71, g^*_9= 61					g^*_5= 94, g^*_9= 91	
	n0. i	L*0a	L*0r	Y0a	Y0r	L*ta	ΔL*ta	L*tr	Yta	(L*tr)$^{1/1.15}$	L*la	ΔL*la
100	9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0	
							10.7					9.4
	8	85.0	0.875	66.0	0.731	85.2		0.861	66.5	0.878	86.6	
							10.7					9.5
75	7	74.0	0.75	46.7	0.515	74.6		0.723	47.6	0.755	77.0	
							10.6					9.7
	6	63.0	0.625	31.6	0.345	64.0		0.587	32.8	0.629	67.3	
							10.4					9.9
50	5	52.1	0.5	20.2	0.217	53.6		0.452	21.6	0.502	57.4	
							10.1					10.0
	4	41.1	0.375	11.9	0.124	43.4		0.321	13.4	0.373	47.5	
							9.6					10.0
25	3	30.1	0.25	6.3	0.06	33.8		0.197	7.9	0.244	37.5	
							8.6					9.7
	2	19.1	0.125	2.8	0.021	25.2		0.086	4.5	0.119	27.8	
							6.6					9.2
0	1	8.1	0.0	0.9	0.0	18.6		0.0	2.6	0.0	18.6	

ΔL^*_{0a}=11.0 (i=1,2,...,8)

normalisation: Y_{taiW}=Y_{0aW} $\frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$

eep41−7n

Test chart eep4; Equal 9 step grey scaling for four display reflections Y_{ref}= 3,6, 0,4, 0,9, 1,8, and black $L^*_{N,CIELAB}$=8.13, Y_N=0.9 and white $L^*_{W,CIELAB}$=95.99, Y_W=90, normalisation: white *W*