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}		g^*_5= 99, g^*_9= 99				g^*_5= 67, g^*_9= 59					g^*_5= 96, g^*_9= 95	
		intended output				real output					linearized output	
n0.	i	L*0a	L*0r	Y0a	Y0r	L*ta	ΔL*ta	L*tr	Yta	(L*tr)$^{1/1.18}$	L*la	ΔL*la
120												
	9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0	
							9.8					8.4
	8	85.8	0.875	67.6	0.746	86.2		0.858	68.4	0.878	87.6	
							9.7					8.5
	7	75.6	0.75	49.2	0.538	76.6		0.717	50.8	0.754	79.1	
90							9.5					8.6
	6	65.4	0.625	34.5	0.371	67.0		0.579	36.7	0.628	70.4	
							9.3					8.7
	5	55.2	0.5	23.1	0.242	57.7		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	
60							8.3					8.7
	3	34.8	0.25	8.4	0.075	40.5		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	
30							5.8					8.4
	1	14.4	0.0	1.8	0.0	27.3		0.0	5.2	0.0	27.3	
0												

ΔL^*_{0a}=10.2 (i=1,2,...,8)

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

eep60−3n

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}		g^*_5= 99, g^*_9= 99				g^*_5= 87, g^*_9= 83					g^*_5= 98, g^*_9= 97	
		intended output				real output					linearized output	
n0.	i	L*0a	L*0r	Y0a	Y0r	L*ta	ΔL*ta	L*tr	Yta	(L*tr)$^{1/1.06}$	L*la	ΔL*la
120												
	9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0	
							10.1					9.6
	8	85.8	0.875	67.6	0.746	85.9		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	
90							10.0					9.7
	6	65.4	0.625	34.5	0.371	65.8		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	
							9.8					9.8
	4	45.0	0.375	14.5	0.144	46.0		0.354	15.3	0.374	47.6	
60							9.6					9.7
	3	34.8	0.25	8.4	0.075	36.4		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	
30							8.4					9.5
	1	14.4	0.0	1.8	0.0	18.7		0.0	2.7	0.0	18.7	
0												

ΔL^*_{0a}=10.2 (i=1,2,...,8)

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

eep61−3n

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}		g^*_5= 99, g^*_9= 99				g^*_5= 93, g^*_9= 91					g^*_5= 98, g^*_9= 98	
		intended output				real output					linearized output	
n0.	i	L*0a	L*0r	Y0a	Y0r	L*ta	ΔL*ta	L*tr	Yta	(L*tr)$^{1/1.03}$	L*la	ΔL*la
120												
	9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0	
							10.1					9.9
	8	85.8	0.875	67.6	0.746	85.8		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	
90							10.1					9.9
	6	65.4	0.625	34.5	0.371	65.6		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	
							10.0					10.0
	4	45.0	0.375	14.5	0.144	45.5		0.365	14.9	0.374	46.2	
60							9.9					10.0
	3	34.8	0.25	8.4	0.075	35.5		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	
30							9.3					9.8
	1	14.4	0.0	1.8	0.0	16.5		0.0	2.2	0.0	16.5	
0												

ΔL^*_{0a}=10.2 (i=1,2,...,8)

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

eep60−7n

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}		g^*_5= 99, g^*_9= 99				g^*_5= 79, g^*_9= 72					g^*_5= 97, g^*_9= 96	
		intended output				real output					linearized output	
n0.	i	L*0a	L*0r	Y0a	Y0r	L*ta	ΔL*ta	L*tr	Yta	(L*tr)$^{1/1.1}$	L*la	ΔL*la
120												
	9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0	
							10.0					9.1
	8	85.8	0.875	67.6	0.746	86.0		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	
90							9.8					9.3
	6	65.4	0.625	34.5	0.371	66.2		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	
							9.5					9.4
	4	45.0	0.375	14.5	0.144	47.0		0.337	16.0	0.374	49.7	
60							9.2					9.4
	3	34.8	0.25	8.4	0.075	37.8		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	
30							7.3					9.1
	1	14.4	0.0	1.8	0.0	22.0		0.0	3.5	0.0	22.0	
0												

ΔL^*_{0a}=10.2 (i=1,2,...,8)

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

eep61−7n

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*