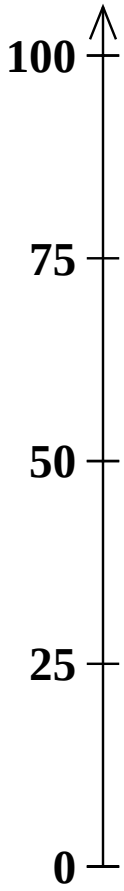
Equal 9 step grey scaling between L^*_{0aN}=17.9 and L^*_{0aW}=95.9, Y_{0ref}=10.0, normalisation white *W*

L^*_{0aN}=17.9, L^*_{0aU}=56.9, L^*_{0aW}=96.0, Y_{0aN}=2.5, Y_{0aU}=24.9, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=36.0

L^*_{taN}=40.0, L^*_{taU}=62.8, L^*_{taW}=96.0, Y_{taN}=11.2, Y_{taU}=31.4, Y_{taW}=90.0, C_{taY}=Y_{taW}:Y_{taN}=8.0

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



n0. i	intended output g^*_5= 99, g^*_9= 99 L*0a	L*0r	Y0a	Y0r	real output g^*_5= 53, g^*_9= 45 L*ta	ΔL*ta	L*tr	Yta	$(L^*tr)^{1/1.29}$	linearized output g^*_5= 97, g^*_9= 93 L*la	ΔL*la
9	96.0	1.0	90.0	1.0	96.0		1.0	90.0	1.0	96.0	
						8.7					6.9
8	86.2	0.875	68.5	0.754	87.3		0.845	70.6	0.877	89.1	
						8.5					7.0
7	76.5	0.75	50.7	0.55	78.8		0.693	54.6	0.752	82.1	
						8.2					7.1
6	66.7	0.625	36.3	0.386	70.6		0.547	41.6	0.626	75.0	
						7.8					7.1
5	56.9	0.5	24.9	0.256	62.8		0.408	31.4	0.499	67.9	
						7.2					7.1
4	47.2	0.375	16.2	0.156	55.6		0.279	23.5	0.372	60.8	
						6.4					7.0
3	37.4	0.25	9.8	0.083	49.2		0.165	17.8	0.247	53.8	
						5.3					6.7
2	27.7	0.125	5.3	0.032	43.9		0.071	13.8	0.128	47.2	
						3.9					7.1
1	17.9	0.0	2.5	0.0	40.0		0.0	11.2	0.0	40.0	

ΔL^*_{0a}=9.7 (i=1,2,...,8)

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