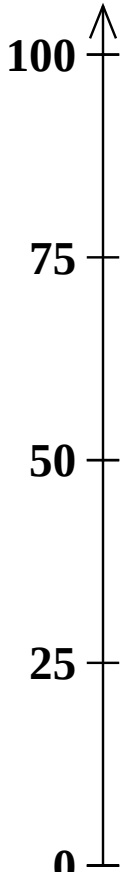
Equal 9 step grey scaling between L^*_{0aN}=22.3 and L^*_{0aW}=95.9, Y_{0ref}=2.5, normalisation grey *U*

L^*_{0aN}=22.3, L^*_{0aU}=59.1, L^*_{0aW}=96.0, Y_{0aN}=3.6, Y_{0aU}=27.2, Y_{0aW}=90.0, C_{0aY}=Y_{0aW}:Y_{0aN}=25.0

L^*_{taN}=28.3, L^*_{taU}=59.1, L^*_{taW}=93.7, Y_{taN}=5.6, Y_{taU}=27.2, Y_{taW}=84.7, C_{taY}=Y_{taW}:Y_{taN}=15.2

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 intended output				g^*_5= 82, g^*_9= 77 real output					g^*_5= 98, g^*_9= 98 linearized output	
n0. i		L*0a	L*0r	Y0a	Y0r	L*ta	ΔL*ta	L*tr	Yta	(L*tr)$^{1/1.09}$	L*la	ΔL*la
9		96.0	1.0	90.0	1.0	93.7		1.0	84.7	1.0	93.7	
							8.8					8.1
8		86.8	0.875	69.6	0.763	85.0		0.866	66.0	0.876	85.6	
							8.7					8.1
7		77.6	0.75	52.5	0.566	76.3		0.733	50.4	0.751	77.5	
							8.6					8.2
6		68.4	0.625	38.5	0.403	67.7		0.601	37.5	0.626	69.3	
							8.5					8.2
5		59.1	0.5	27.2	0.273	59.1		0.471	27.2	0.5	61.0	
							8.3					8.2
4		49.9	0.375	18.4	0.171	50.8		0.343	19.1	0.374	52.8	
							8.0					8.2
3		40.7	0.25	11.7	0.094	42.8		0.22	13.0	0.248	44.6	
							7.6					8.1
2		31.5	0.125	6.9	0.038	35.2		0.104	8.6	0.125	36.5	
							6.8					8.2
1		22.3	0.0	3.6	0.0	28.3		0.0	5.6	0.0	28.3	

ΔL^*_{0a}=9.2 (i=1,2,...,8)

normalisation: $Y_{taiU}=Y_{0aU}\frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$