Equal 9 step grey scaling between $L^*_{0aN}=-50$ & $L^*_{0aW}=50.0$, $Y_{0ref}=1$, normalisation white W

$L^*_{0aN}=-49.9$, $L^*_{0aU}=0.0$, $L^*_{0aW}=50.0$, $Y_{0aN}=4.0$, $Y_{0aU}=20.0$, $Y_{0aW}=100.0$, $C_{0aY}=Y_{0aW}{:}Y_{0aN}=25.0$

$L^*_{taN}=-43.3$, $L^*_{taU}=1.2$, $L^*_{taW}=50.0$, $Y_{taN}=4.9$, $Y_{taU}=20.8$, $Y_{taW}=100.0$, $C_{taY}=Y_{taW}{:}Y_{taN}=20.2$

Regularity index according to ISO/IEC 15775:2022, annex G for 5 and 9 steps

$g^* = 100\,[\Delta L^*_{min}] / [\Delta L^*_{max}]$, $L^*_{TUBLOG,Ua} = 50 / \log(5)\,[\,\log(Y/Y_u)\,]$ with $Y_u=20$

$g^*_5= 100$, $g^*_9= 100$ $\qquad$ $g^*_5= 86$, $g^*_9= 83$ $\qquad\qquad$ $g^*_5= 99$, $g^*_9= 97$

| $L^*_{TUBLOG,Ua}$ intended output | | | | | real output | | | | | linearized output | |
n0. i	L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{ta}	ΔL^*_{ta}	L^*_{tr}	Y_{ta}	$(L^*_{tr})^{1/1.06}$	L^*_{la}	ΔL^*_{la}
9	50.0	1.0	100.0	1.0	50.0		1.0	100.0	1.0	50.0	
						12.3					11.6
8	37.5	0.875	66.9	0.655	37.6		0.868	67.2	0.875	38.3	
						12.3					11.7
7	25.0	0.75	44.7	0.424	25.4		0.736	45.3	0.75	26.6	
						12.2					11.7
6	12.5	0.625	29.9	0.27	13.2		0.606	30.6	0.624	14.9	
						12.0					11.7
5	0.0	0.5	20.0	0.167	1.2		0.477	20.8	0.499	3.2	
						11.8					11.7
4	−12.4	0.375	13.4	0.098	−10.5		0.351	14.2	0.374	−8.4	
						11.4					11.6
3	−24.9	0.25	8.9	0.051	−21.9		0.229	9.8	0.25	−20.0	
						11.0					11.5
2	−37.4	0.125	6.0	0.021	−32.9		0.111	6.9	0.127	−31.5	
						10.4					11.8
1	−49.9	0.0	4.0	0.0	−43.3		0.0	4.9	0.0	−43.3	

Vertical axis labels: 50, 25, 0, −25, −50

$\Delta L^*_{0a}=12.5$ $\qquad$ (i=1,2,...,8) $\qquad$ normalisation: $Y_{taiW}=Y_{0aW}\dfrac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$