Equal 9 step grey scaling between $L^*_{0aN}=22.3$ and $L^*_{0aW}=95.9$, $Y_{0ref}=20.0$, normalisation grey U

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

$L^*_{taN}=43.6$, $L^*_{taU}=59.1$, $L^*_{taW}=83.6$, $Y_{taN}=13.6$, $Y_{taU}=27.2$, $Y_{taW}=63.4$, $C_{taY}=Y_{taW}:Y_{taN}=4.7$

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

$g^* = 100 \ [\Delta L^*_{min}] / [\Delta L^*_{max}]$, $L^*_{CIELAB} = 116 \ [Y/Y_n]^{1/3} - 16$ with $Y \geq 0{,}882$, $Y_n=100$

		intended output				real output						linearized output	
L^*_{CIELAB}		$g^*_5= 99$, $g^*_9= 99$				$g^*_5= 47$, $g^*_9= 40$						$g^*_5= 96$, $g^*_9= 87$	
	n0. i	L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{ta}	ΔL^*_{ta}	L^*_{tr}	Y_{ta}	$(L^*_{tr})^{1/1.35}$		L^*_{la}	ΔL^*_{la}
100	9	96.0	1.0	90.0	1.0	83.6		1.0	63.4	1.0		83.6	
	8	86.8	0.875	69.6	0.763	77.0	6.6	0.835	51.6	0.875		78.6	5.0
	7	77.6	0.75	52.5	0.566	70.7	6.3	0.677	41.8	0.749		73.6	5.0
75	6	68.4	0.625	38.5	0.403	64.7	6.0	0.527	33.7	0.622		68.5	5.1
	5	59.1	0.5	27.2	0.273	59.1	5.6	0.387	27.2	0.496		63.5	5.0
50	4	49.9	0.375	18.4	0.171	54.1	5.0	0.262	22.1	0.372		58.5	5.0
	3	40.7	0.25	11.7	0.094	49.8	4.3	0.154	18.3	0.251		53.7	4.8
25	2	31.5	0.125	6.9	0.038	46.3	3.5	0.066	15.5	0.134		49.0	4.7
	1	22.3	0.0	3.6	0.0	43.6	2.6	0.0	13.6	0.0		43.6	5.3
0													

$\Delta L^*_{0a}=9.2$ (i=1,2,...,8)

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