

Equal 9 step grey scaling between $L^*_{0aN}=20.0$ and $L^*_{0aW}=103.0$, $Y_{0ref}=108.0$, normalisation grey U

$L^*_{0aN}=20.0$, $L^*_{0aU}=61.5$, $L^*_{0aW}=103.0$, $Y_{0aN}=3.0$, $Y_{0aU}=29.8$, $Y_{0aW}=108.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=36.0$
 $L^*_{taN}=56.1$, $L^*_{taU}=61.5$, $L^*_{taW}=74.0$, $Y_{taN}=24.0$, $Y_{taU}=29.8$, $Y_{taW}=46.8$, $C_{taY}=Y_{taW}:Y_{taN}=1.9$

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

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$, $L^*_{CIE LAB} = 116 [Y/Y_n]^{1/3} - 16$ with $Y \geq 0.882$, $Y_n=100$

$g^*_5 = 100$, $g^*_9 = 99$

$g^*_5 = 25$, $g^*_9 = 19$

$g^*_5 = 89$, $g^*_9 = 73$

$L^*_{CIE LAB}$	n0. i	intended output				real output					linearized output	
		L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{ta}	ΔL^*_{ta}	L^*_{tr}	Y_{ta}	$(L^*_{tr})^{1/1.68}$	L^*_{la}	ΔL^*_{la}
100	○ 9	103.0	1.0	108.0	1.0	74.0		1.0	46.8	1.0	74.0	
	● 8	92.6	0.875	82.1	0.754	70.3	3.7	0.791	41.2	0.87	71.7	2.3
	● 7	82.3	0.75	60.8	0.55	66.9	3.3	0.603	36.5	0.741	69.4	2.3
75	● 6	71.9	0.625	43.5	0.386	64.0	2.9	0.44	32.8	0.613	67.1	2.3
	● 5	61.5	0.5	29.8	0.256	61.5	2.5	0.301	29.8	0.49	64.9	2.2
50	● 4	51.2	0.375	19.4	0.156	59.5	2.0	0.189	27.6	0.371	62.8	2.1
	● 3	40.8	0.25	11.7	0.083	58.0	1.5	0.103	25.9	0.258	60.8	2.0
	● 2	30.4	0.125	6.4	0.032	56.9	1.1	0.041	24.8	0.149	58.8	2.0
25	● 1	20.0	0.0	3.0	0.0	56.1	0.7	0.0	24.0	0.0	56.1	2.7
0		$\Delta L^*_{0a}=10.4$ (i=1,2,...,8)			normalisation: $Y_{taiU}=Y_{0aU} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$							