

Equal 9 step grey scaling between $L^*_{0aN}=20.0$ and $L^*_{0aW}=103.0$, $Y_{0ref}=1.8$, normalisation grey U

$L^*_{0aN}=20.0$, $L^*_{0aU}=61.5$, $L^*_{0aW}=103.0$, $Y_{0aN}=3.0$, $Y_{0aU}=29.8$, $Y_{0aW}=108.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=36.0$
 $L^*_{taN}=25.3$, $L^*_{taU}=61.5$, $L^*_{taW}=101.3$, $Y_{taN}=4.5$, $Y_{taU}=29.8$, $Y_{taW}=103.5$, $C_{taY}=Y_{taW}:Y_{taN}=22.9$

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 $Y \geq 0.882$, $Y_n=100$

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

$g^*_5=85$, $g^*_9=80$

$g^*_5=98$, $g^*_9=98$

$L^*_{CIE LAB}$	n0. i	intended output				real output				linearized output		
		L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{ta}	ΔL^*_{ta}	L^*_{tr}	Y_{ta}	$(L^*_{tr})^{1/1.07}$	L^*_{la}	ΔL^*_{la}
100	○ 9	103.0	1.0	108.0	1.0	101.3		1.0	103.5	1.0	101.3	
	● 8	92.6	0.875	82.1	0.754	91.3	10.0	0.868	79.2	0.876	91.9	9.4
	● 7	82.3	0.75	60.8	0.55	81.3	10.0	0.736	59.0	0.752	82.5	9.5
75	● 6	71.9	0.625	43.5	0.386	71.4	9.9	0.605	42.7	0.626	73.0	9.5
	● 5	61.5	0.5	29.8	0.256	61.5	9.8	0.476	29.8	0.501	63.4	9.6
	● 4	51.2	0.375	19.4	0.156	51.8	9.7	0.348	20.0	0.374	53.8	9.6
50	● 3	40.8	0.25	11.7	0.083	42.4	9.4	0.224	12.8	0.248	44.2	9.6
	● 2	30.4	0.125	6.4	0.032	33.4	9.0	0.106	7.7	0.124	34.8	9.4
25	● 1	20.0	0.0	3.0	0.0	25.3	8.1	0.0	4.5	0.0	25.3	9.4
0		$\Delta L^*_{0a}=10.4$ (i=1,2,...,8)				normalisation: $Y_{taiU}=Y_{0aU} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$						