

Equal 9 step grey scaling between $L^*_{0aN}=20.0$ and $L^*_{0aW}=103.0$, $Y_{0ref}=3.6$, normalisation white W

$L^*_{0aN}=20.0$, $L^*_{0aU}=61.5$, $L^*_{0aW}=103.0$, $Y_{0aN}=3.0$, $Y_{0aU}=29.8$, $Y_{0aW}=108.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=36.0$
 $L^*_{taN}=30.4$, $L^*_{taU}=63.6$, $L^*_{taW}=103.0$, $Y_{taN}=6.4$, $Y_{taU}=32.4$, $Y_{taW}=108.0$, $C_{taY}=Y_{taW}:Y_{taN}=16.9$

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

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

$g^*_5=75$, $g^*_9=68$

$g^*_5=97$, $g^*_9=97$

$L^*_{CIE LAB}$	n0. i	intended output				real output					linearized output	
		L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{ta}	ΔL^*_{ta}	L^*_{tr}	Y_{ta}	$(L^*_{tr})^{1/1.13}$	L^*_{la}	ΔL^*_{la}
100	○ 9	103.0	1.0	108.0	1.0	103.0		1.0	108.0	1.0	103.0	
	● 8	92.6	0.875	82.1	0.754	93.0	10.0	0.862	83.0	0.877	94.1	8.9
	● 7	82.3	0.75	60.8	0.55	83.1	9.9	0.726	62.3	0.752	85.0	9.0
75	● 6	71.9	0.625	43.5	0.386	73.3	9.8	0.591	45.6	0.627	75.9	9.1
	● 5	61.5	0.5	29.8	0.256	63.6	9.6	0.458	32.4	0.5	66.7	9.2
	● 4	51.2	0.375	19.4	0.156	54.3	9.3	0.329	22.3	0.373	57.5	9.2
50	● 3	40.8	0.25	11.7	0.083	45.4	8.9	0.207	14.8	0.247	48.3	9.2
	● 2	30.4	0.125	6.4	0.032	37.3	8.1	0.095	9.7	0.124	39.4	9.0
25	● 1	20.0	0.0	3.0	0.0	30.4	6.9	0.0	6.4	0.0	30.4	9.0
0		$\Delta L^*_{0a}=10.4$ (i=1,2,...,8)				normalisation: $Y_{taiW}=Y_{0aW} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$						