



Equal 9 step grey scaling between $L^*_{0aW}=22.3$ and $L^*_{0aW}=96.0, Y_{0ref}=90.0$, normalisation: grey U

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

$L^*_{0N}=53.7, L^*_{0U}=59.1, L^*_{0W}=70.7, Y_{0aN}=21.7, Y_{0aU}=27.2, Y_{0aW}=41.8, C_{0aY}=Y_{0aW}, Y_{0aN}=1.9$

regularity index according to ISO/CIE 15775:2022, Annex G for 5 and 9 steps

$g^* = 100 |\Delta L^*_{min}| / |\Delta L^*_{max}|$

L^*	$g^* = 99, g^*_w = 99$		$g^* = 30, g^*_w = 23$		$g^* = 88, g^*_w = 74$	
	intended output	real output	L^*_{ta}	ΔL^*_{ta}	L^*_{ta}	ΔL^*_{ta}
100	96.0	96.0	70.7	25.3	70.7	25.3
75	86.8	87.5	67.3	3.1	67.3	3.1
50	77.6	77.5	64.2	2.7	64.2	2.7
25	68.4	62.5	61.5	2.3	61.5	2.3
	59.1	5.5	59.1	1.9	59.1	1.9
	49.9	3.75	57.2	1.5	57.2	1.5
	40.7	0.25	55.7	1.1	55.7	1.1
	31.5	0.125	54.5	0.8	54.5	0.8
	22.3	0.0	53.7	0.7	53.7	0.7

$\Delta L^*_{0a} = 9.2$ (i=1,2,...,9) normalisation: $Y_{0aU} = Y_{0aU} \frac{Y_{0aU} + Y_{0ref}}{Y_{0aU} + 10ref}$

TUB-test chart ea1; Grey scaling a regulatory index g^* ; line elements of colourimetry
 Comparison of scaling, threshold, and contrast functions for different applications

