

Equal 9 step grey scaling between $L^*_{0aN}=-48.3$ and $L^*_{0aW}=48.3$, $Y_{0ref}=1.8$, normalisation grey U

$L^*_{0aN}=-48.3$, $L^*_{0aU}=0.0$, $L^*_{0aW}=48.4$, $Y_{0aN}=2.6$, $Y_{0aU}=18.0$, $Y_{0aW}=126.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=49.0$
 $L^*_{taN}=-37.5$, $L^*_{taU}=0.0$, $L^*_{taW}=46.3$, $Y_{taN}=4.0$, $Y_{taU}=18.0$, $Y_{taW}=116.2$, $C_{taY}=Y_{taW}:Y_{taN}=29.2$

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

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$, $L^*_{TUBJND1} = 40 / \log(5) [\log (Y/Y_u)]$ with $Y_u=18$

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

$g^*_5 = 71$, $g^*_9 = 65$

$g^*_5 = 98$, $g^*_9 = 94$

$L^*_{TUBJND1}$	n0. i	intended output				real output					linearized output	
		L^*_{0a}	L^*_{0r}	Y_{0a}	Y_{0r}	L^*_{ta}	ΔL^*_{ta}	L^*_{tr}	Y_{ta}	$(L^*_{tr})^{1/1.15}$	L^*_{la}	ΔL^*_{la}
50	9	48.4	1.0	126.0	1.0	46.3		1.0	116.2	1.0	46.3	
	8						11.9					10.4
	7	36.3	0.875	77.4	0.607	34.5		0.858	72.0	0.876	36.0	
25	6	24.2	0.75	47.6	0.365	22.7		0.718	44.9	0.751	25.5	
	5						11.5					10.6
	4	12.1	0.625	29.3	0.216	11.2		0.581	28.2	0.625	14.9	
0	3	0.0	0.5	18.0	0.125	0.0		0.447	18.0	0.499	4.3	
	2						11.2					10.6
	1	-12.0	0.375	11.1	0.069	-10.6		0.32	11.7	0.373	-6.2	
-25	8						10.7					10.5
	7	-24.1	0.25	6.8	0.034	-20.6		0.2	7.8	0.249	-16.6	
	6						9.0					10.1
	5	-36.2	0.125	4.2	0.013	-29.7		0.093	5.4	0.128	-26.7	
	4						7.8					10.7
-50	3											
	2	-48.3	0.0	2.6	0.0	-37.5		0.0	4.0	0.0	-37.5	
	1											

$\Delta L^*_{0a} = 12.1$ (i=1,2,...,8)

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