

Equal 9 step grey scaling between $L^*_{0aN}=-27.3$ and $L^*_{0aW}=27.3$, $Y_{0ref}=1.8$, normalisation white W

$L^*_{0aN}=-27.2$, $L^*_{0aU}=0.0$, $L^*_{0aW}=27.3$, $Y_{0aN}=6.0$, $Y_{0aU}=18.0$, $Y_{0aW}=54.0$, $C_{0aY}=Y_{0aW}:Y_{0aN}=9.0$

$L^*_{taN}=-21.5$, $L^*_{taU}=1.5$, $L^*_{taW}=27.3$, $Y_{taN}=7.5$, $Y_{taU}=19.2$, $Y_{taW}=54.0$, $C_{taY}=Y_{taW}:Y_{taN}=7.1$

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

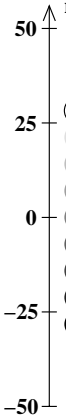
$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$, $L^*_{TUBJND1} = 40 / \log(5) [\log (Y/Y_u)]$ with $Y_u=18$

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

$g^*_5=84$, $g^*_9=82$

$g^*_5=98$, $g^*_9=95$

$L^*_{TUBJND1}$ **intended output** **real output** **linearized output**
 n0. i 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}



50	○ 9	27.3	1.0	54.0	1.0	27.3		1.0	54.0	1.0	27.3	
25	● 8	20.5	0.875	41.0	0.73	20.7	6.6	0.865	41.4	0.874	21.1	6.1
	● 7	13.6	0.75	31.2	0.524	14.2	6.5	0.733	31.9	0.748	15.0	6.1
	● 6	6.8	0.625	23.7	0.368	7.8	6.4	0.602	24.7	0.623	8.9	6.1
0	● 5	0.0	0.5	18.0	0.25	1.5	6.3	0.473	19.2	0.498	2.8	6.1
	● 4	-6.7	0.375	13.7	0.16	-4.5	6.1	0.348	15.0	0.374	-3.2	6.1
	● 3	-13.6	0.25	10.4	0.091	-10.4	5.9	0.227	11.8	0.251	-9.2	6.0
-25	● 2	-20.4	0.125	7.9	0.039	-16.1	5.7	0.111	9.4	0.128	-15.2	6.0
	● 1	-27.2	0.0	6.0	0.0	-21.5	5.4	0.0	7.5	0.0	-21.5	6.3

$\Delta L^*_{0a}=6.8$

(i=1,2,...,8)

normalisation: $Y_{taiW}=Y_{0aW} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aW}+Y_{0ref}}$