

# 9stufige Grauskalierung zwischen $L^*_{0aN}=23$ & $L^*_{0aW}=104.2$ , $Y_{0ref}=110$ , Normierung Weiß W

$L^*_{0aN}=23.7$ ,  $L^*_{0aU}=64.0$ ,  $L^*_{0aW}=104.2$ ,  $Y_{0aN}=3.6$ ,  $Y_{0aU}=35.7$ ,  $Y_{0aW}=110.0$ ,  $C_{0aY}=Y_{0aW}:Y_{0aN}=30.2$

$L^*_{taN}=78.2$ ,  $L^*_{taU}=87.2$ ,  $L^*_{taW}=104.2$ ,  $Y_{taN}=56.8$ ,  $Y_{taU}=72.9$ ,  $Y_{taW}=110.0$ ,  $C_{taY}=Y_{taW}:Y_{taN}=1.9$

## Regularitätsindex nach ISO/IEC 15775:2022, Anhang G für 5 und 9 Stufen

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$ ,  $L^*_{TUBsRGB,W} = 100 [Y/Y_n]^{1/\ln(10)}$  mit  $Y \geq 0,39 = 100/255$ ,  $Y_n=100$

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

$g^*_5=35$ ,  $g^*_9=27$

$g^*_5=48$ ,  $g^*_9=36$

$L^*_{TUBsRGB,W}$  angestrebte Ausgabe

reale Ausgabe

linearisierte Ausgabe

n0. i	$L^*_{0a}$ $L^*_{0r}$ $Y_{0a}$ $Y_{0r}$				$L^*_{ta}$ $\Delta L^*_{ta}$ $L^*_{tr}$ $Y_{ta}$ $(L^*_{tr})^{1/2.15}$					$L^*_{la}$ $\Delta L^*_{la}$		
9	104.2	1.0	110.0	1.0	104.2		1.0	110.0	1.0	104.2		
8	94.2	0.875	87.1	0.784	99.4	4.9	0.813	98.5	0.908	101.8	2.4	
7	84.1	0.75	67.1	0.597	94.8	4.5	0.64	88.5	0.812	99.3	2.5	
6	74.0	0.625	50.0	0.436	90.8	4.1	0.482	80.0	0.713	96.7	2.6	
5	64.0	0.5	35.7	0.302	87.2	3.6	0.343	72.9	0.608	94.0	2.7	
4	53.9	0.375	24.1	0.192	84.1	3.1	0.224	67.0	0.499	91.2	2.8	
3	43.8	0.25	15.0	0.107	81.5	2.5	0.127	62.5	0.383	88.2	3.0	
2	33.8	0.125	8.2	0.043	79.6	1.9	0.052	59.1	0.253	84.8	3.4	
1	23.7	0.0	3.6	0.0	78.2	1.3	0.0	56.8	0.0	78.2	6.6	

$\Delta L^*_{0a}=10.1$  (i=1,2,...,8)

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