

# 9stufige Grauskalierung zwischen $L^*_{0aN}=-44.5$ und $L^*_{0aW}=44.5$ , $Y_{0ref}=3.6$ , Normierung Grau U

$L^*_{0aN}=-44.4$ ,  $L^*_{0aU}=0.0$ ,  $L^*_{0aW}=44.5$ ,  $Y_{0aN}=3.0$ ,  $Y_{0aU}=18.0$ ,  $Y_{0aW}=108.0$ ,  $C_{0aY}=Y_{0aW}:Y_{0aN}=36.0$

$L^*_{taN}=-29.4$ ,  $L^*_{taU}=0.0$ ,  $L^*_{taW}=40.8$ ,  $Y_{taN}=5.5$ ,  $Y_{taU}=18.0$ ,  $Y_{taW}=93.0$ ,  $C_{taY}=Y_{taW}:Y_{taN}=16.9$

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

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

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

$g^*_5=59$ ,  $g^*_9=53$

$g^*_5=97$ ,  $g^*_9=89$

| L* <sub>TUBJND1</sub> | n0. i | angestrebte Ausgabe |                  |                 |                 | reale Ausgabe    |                   |                  |                 |                                       | linearisierte Ausgabe |                   |
|-----------------------|-------|---------------------|------------------|-----------------|-----------------|------------------|-------------------|------------------|-----------------|---------------------------------------|-----------------------|-------------------|
|                       |       | L* <sub>0a</sub>    | L* <sub>0r</sub> | Y <sub>0a</sub> | Y <sub>0r</sub> | L* <sub>ta</sub> | $\Delta L^*_{ta}$ | L* <sub>tr</sub> | Y <sub>ta</sub> | (L* <sub>tr</sub> ) <sup>1/1.24</sup> | L* <sub>la</sub>      | $\Delta L^*_{la}$ |
| 50                    | 9     | 44.5                | 1.0              | 108.0           | 1.0             | 40.8             |                   | 1.0              | 93.0            | 1.0                                   | 40.8                  |                   |
|                       | 8     | 33.4                | 0.875            | 69.0            | 0.629           | 30.1             | 10.7              | 0.848            | 60.5            | 0.876                                 | 32.1                  | 8.7               |
| 25                    | 7     | 22.3                | 0.75             | 44.1            | 0.391           | 19.7             | 10.4              | 0.699            | 39.7            | 0.75                                  | 23.2                  | 8.8               |
|                       | 6     | 11.1                | 0.625            | 28.2            | 0.24            | 9.6              | 10.1              | 0.556            | 26.5            | 0.623                                 | 14.3                  | 8.9               |
| 0                     | 5     | 0.0                 | 0.5              | 18.0            | 0.143           | 0.0              | 9.6               | 0.419            | 18.0            | 0.497                                 | 5.4                   | 8.9               |
|                       | 4     | -11.0               | 0.375            | 11.5            | 0.081           | -8.8             | 8.9               | 0.293            | 12.6            | 0.372                                 | -3.2                  | 8.8               |
|                       | 3     | -22.2               | 0.25             | 7.3             | 0.041           | -16.8            | 8.0               | 0.179            | 9.1             | 0.25                                  | -11.8                 | 8.5               |
| -25                   | 2     | -33.3               | 0.125            | 4.7             | 0.016           | -23.7            | 6.9               | 0.081            | 6.9             | 0.132                                 | -20.1                 | 8.3               |
|                       | 1     | -44.4               | 0.0              | 3.0             | 0.0             | -29.4            | 5.7               | 0.0              | 5.5             | 0.0                                   | -29.4                 | 9.3               |

$\Delta L^*_{0a}=11.1$  (i=1,2,...,8)

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