

9stufige Grauskalierung zwischen  $L^*_{0aN}=14.4$  und  $L^*_{0aW}=125.1$ ,  $Y_{0ref}=3.6$ , Normierung Grau U

$L^*_{0aN}=14.4$ ,  $L^*_{0aU}=69.7$ ,  $L^*_{0aW}=125.1$ ,  $Y_{0aN}=1.8$ ,  $Y_{0aU}=40.4$ ,  $Y_{0aW}=180.0$ ,  $C_{0aY}=Y_{0aW}:Y_{0aN}=99.9$

$L^*_{taN}=26.6$ ,  $L^*_{taU}=69.7$ ,  $L^*_{taW}=122.0$ ,  $Y_{taN}=4.9$ ,  $Y_{taU}=40.4$ ,  $Y_{taW}=168.6$ ,  $C_{taY}=Y_{taW}:Y_{taN}=34.0$

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

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$ ,  $L^*_{CIELAB} = 116 [Y/Y_n]^{1/3} - 16$  mit  $Y >= 0,882$ ,  $Y_n=100$

| $L^*_{CIELAB}$<br>n0.i | angestrebte Ausgabe |            |          |          | reale Ausgabe |                   |            |          | linearisierte Ausgabe |            |                   |  |
|------------------------|---------------------|------------|----------|----------|---------------|-------------------|------------|----------|-----------------------|------------|-------------------|--|
|                        | $L^*_{0a}$          | $L^*_{0r}$ | $Y_{0a}$ | $Y_{0r}$ | $L^*_{ta}$    | $\Delta L^*_{ta}$ | $L^*_{tr}$ | $Y_{ta}$ | $(L^*_{tr})^{1/1.15}$ | $L^*_{la}$ | $\Delta L^*_{la}$ |  |
| 9                      | 125.1               | 1.0        | 180.0    | 1.0      | 122.0         | 13.2              | 1.0        | 168.6    | 1.0                   | 122.0      | 11.6              |  |
| 8                      | 111.3               | 0.875      | 132.1    | 0.731    | 108.8         | 13.2              | 0.861      | 124.6    | 0.878                 | 110.4      | 11.8              |  |
| 7                      | 97.4                | 0.75       | 93.5     | 0.514    | 95.6          | 13.0              | 0.723      | 89.1     | 0.755                 | 98.7       | 12.0              |  |
| 6                      | 83.6                | 0.625      | 63.3     | 0.345    | 82.6          | 12.8              | 0.587      | 61.4     | 0.629                 | 86.7       | 12.1              |  |
| 5                      | 69.7                | 0.5        | 40.4     | 0.217    | 69.7          | 12.5              | 0.452      | 40.4     | 0.502                 | 74.5       | 12.3              |  |
| 4                      | 55.9                | 0.375      | 23.8     | 0.124    | 57.2          | 11.8              | 0.321      | 25.2     | 0.373                 | 62.2       | 12.3              |  |
| 3                      | 42.1                | 0.25       | 12.5     | 0.06     | 45.4          | 10.6              | 0.197      | 14.8     | 0.244                 | 49.9       | 12.0              |  |
| 2                      | 28.2                | 0.125      | 5.5      | 0.021    | 34.8          | 8.2               | 0.086      | 8.4      | 0.119                 | 37.9       | 11.3              |  |
| 1                      | 14.4                | 0.0        | 1.8      | 0.0      | 26.6          |                   | 0.0        | 4.9      | 0.0                   | 26.6       |                   |  |

$\Delta L^*_{0a}=13.8$  (i=1,2,...,8) Normierung:  $Y_{taiU}=Y_{0aU} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$

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9stufige Grauskalierung zwischen  $L^*_{0aN}=14.4$  und  $L^*_{0aW}=125.1$ ,  $Y_{0ref}=0.9$ , Normierung Grau U

$L^*_{0aN}=14.4$ ,  $L^*_{0aU}=69.7$ ,  $L^*_{0aW}=125.1$ ,  $Y_{0aN}=1.8$ ,  $Y_{0aU}=40.4$ ,  $Y_{0aW}=180.0$ ,  $C_{0aY}=Y_{0aW}:Y_{0aN}=99.9$

$L^*_{taN}=18.5$ ,  $L^*_{taU}=69.7$ ,  $L^*_{taW}=124.3$ ,  $Y_{taN}=2.6$ ,  $Y_{taU}=40.4$ ,  $Y_{taW}=176.9$ ,  $C_{taY}=Y_{taW}:Y_{taN}=67.0$

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

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$ ,  $L^*_{CIELAB} = 116 [Y/Y_n]^{1/3} - 16$  mit  $Y >= 0,882$ ,  $Y_n=100$

| $L^*_{CIELAB}$<br>n0.i | angestrebte Ausgabe |            |          |          | reale Ausgabe |                   |            |          | linearisierte Ausgabe |            |                   |  |
|------------------------|---------------------|------------|----------|----------|---------------|-------------------|------------|----------|-----------------------|------------|-------------------|--|
|                        | $L^*_{0a}$          | $L^*_{0r}$ | $Y_{0a}$ | $Y_{0r}$ | $L^*_{ta}$    | $\Delta L^*_{ta}$ | $L^*_{tr}$ | $Y_{ta}$ | $(L^*_{tr})^{1/1.05}$ | $L^*_{la}$ | $\Delta L^*_{la}$ |  |
| 9                      | 125.1               | 1.0        | 180.0    | 1.0      | 124.3         | 13.7              | 1.0        | 176.9    | 1.0                   | 124.3      | 13.1              |  |
| 8                      | 111.3               | 0.875      | 132.1    | 0.731    | 110.6         | 13.7              | 0.871      | 130.1    | 0.876                 | 111.2      | 13.1              |  |
| 7                      | 97.4                | 0.75       | 93.5     | 0.514    | 96.9          | 13.6              | 0.741      | 92.3     | 0.752                 | 98.1       | 13.2              |  |
| 6                      | 83.6                | 0.625      | 63.3     | 0.345    | 83.3          | 13.6              | 0.612      | 62.8     | 0.627                 | 84.8       | 13.3              |  |
| 5                      | 69.7                | 0.5        | 40.4     | 0.217    | 69.7          | 13.5              | 0.484      | 40.4     | 0.501                 | 71.5       | 13.4              |  |
| 4                      | 55.9                | 0.375      | 23.8     | 0.124    | 56.3          | 13.3              | 0.357      | 24.2     | 0.374                 | 58.1       | 13.4              |  |
| 3                      | 42.1                | 0.25       | 12.5     | 0.06     | 43.0          | 12.8              | 0.231      | 13.1     | 0.248                 | 44.7       | 13.3              |  |
| 2                      | 28.2                | 0.125      | 5.5      | 0.021    | 30.2          | 11.6              | 0.11       | 6.3      | 0.122                 | 31.4       | 12.9              |  |
| 1                      | 14.4                | 0.0        | 1.8      | 0.0      | 18.5          |                   | 0.0        | 2.6      | 0.0                   | 18.5       |                   |  |

$\Delta L^*_{0a}=13.8$  (i=1,2,...,8) Normierung:  $Y_{taiU}=Y_{0aU} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$

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9stufige Grauskalierung zwischen  $L^*_{0aN}=14.4$  und  $L^*_{0aW}=125.1$ ,  $Y_{0ref}=1.8$ , Normierung Grau U

$L^*_{0aN}=14.4$ ,  $L^*_{0aU}=69.7$ ,  $L^*_{0aW}=125.1$ ,  $Y_{0aN}=1.8$ ,  $Y_{0aU}=40.4$ ,  $Y_{0aW}=180.0$ ,  $C_{0aY}=Y_{0aW}:Y_{0aN}=99.9$

$L^*_{taN}=21.7$ ,  $L^*_{taU}=69.7$ ,  $L^*_{taW}=123.5$ ,  $Y_{taN}=3.4$ ,  $Y_{taU}=40.4$ ,  $Y_{taW}=174.0$ ,  $C_{taY}=Y_{taW}:Y_{taN}=50.5$

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

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$ ,  $L^*_{CIELAB} = 116 [Y/Y_n]^{1/3} - 16$  mit  $Y >= 0,882$ ,  $Y_n=100$

| $L^*_{CIELAB}$<br>n0.i | angestrebte Ausgabe |            |          |          | reale Ausgabe |                   |            |          | linearisierte Ausgabe |            |                   |  |
|------------------------|---------------------|------------|----------|----------|---------------|-------------------|------------|----------|-----------------------|------------|-------------------|--|
|                        | $L^*_{0a}$          | $L^*_{0r}$ | $Y_{0a}$ | $Y_{0r}$ | $L^*_{ta}$    | $\Delta L^*_{ta}$ | $L^*_{tr}$ | $Y_{ta}$ | $(L^*_{tr})^{1/1.09}$ | $L^*_{la}$ | $\Delta L^*_{la}$ |  |
| 9                      | 125.1               | 1.0        | 180.0    | 1.0      | 123.5         | 13.5              | 1.0        | 174.0    | 1.0                   | 123.5      | 12.5              |  |
| 8                      | 111.3               | 0.875      | 132.1    | 0.731    | 110.0         | 13.5              | 0.867      | 128.1    | 0.877                 | 111.0      | 12.6              |  |
| 7                      | 97.4                | 0.75       | 93.5     | 0.514    | 96.5          | 13.4              | 0.734      | 91.2     | 0.753                 | 98.4       | 12.7              |  |
| 6                      | 83.6                | 0.625      | 63.3     | 0.345    | 83.1          | 13.3              | 0.602      | 62.3     | 0.628                 | 85.7       | 12.9              |  |
| 5                      | 69.7                | 0.5        | 40.4     | 0.217    | 69.7          | 13.1              | 0.472      | 40.4     | 0.502                 | 72.8       | 13.0              |  |
| 4                      | 55.9                | 0.375      | 23.8     | 0.124    | 56.6          | 12.8              | 0.343      | 24.5     | 0.374                 | 59.8       | 13.0              |  |
| 3                      | 42.1                | 0.25       | 12.5     | 0.06     | 43.9          | 12.0              | 0.217      | 13.7     | 0.246                 | 46.8       | 12.8              |  |
| 2                      | 28.2                | 0.125      | 5.5      | 0.021    | 31.9          | 10.1              | 0.099      | 7.0      | 0.12                  | 34.0       | 12.2              |  |
| 1                      | 14.4                | 0.0        | 1.8      | 0.0      | 21.7          |                   | 0.0        | 3.4      | 0.0                   | 21.7       |                   |  |

$\Delta L^*_{0a}=13.8$  (i=1,2,...,8) Normierung:  $Y_{taiU}=Y_{0aU} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$

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9stufige Grauskalierung zwischen  $L^*_{0aN}=14.4$  und  $L^*_{0aW}=125.1$ ,  $Y_{0ref}=180.0$ , Normierung Grau U

$L^*_{0aN}=14.4$ ,  $L^*_{0aU}=69.7$ ,  $L^*_{0aW}=125.1$ ,  $Y_{0aN}=1.8$ ,  $Y_{0aU}=40.4$ ,  $Y_{0aW}=180.0$ ,  $C_{0aY}=Y_{0aW}:Y_{0aN}=99.9$

$L^*_{taN}=64.4$ ,  $L^*_{taU}=69.7$ ,  $L^*_{taW}=85.0$ ,  $Y_{taN}=33.3$ ,  $Y_{taU}=40.4$ ,  $Y_{taW}=66.0$ ,  $C_{taY}=Y_{taW}:Y_{taN}=2.0$

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

$g^* = 100 [\Delta L^*_{min}] / [\Delta L^*_{max}]$ ,  $L^*_{CIELAB} = 116 [Y/Y_n]^{1/3} - 16$  mit  $Y >= 0,882$ ,  $Y_n=100$

| $L^*_{CIELAB}$<br>n0.i | angestrebte Ausgabe |            |          |          | reale Ausgabe |                   |            |          | linearisierte Ausgabe |            |                   |  |
|------------------------|---------------------|------------|----------|----------|---------------|-------------------|------------|----------|-----------------------|------------|-------------------|--|
|                        | $L^*_{0a}$          | $L^*_{0r}$ | $Y_{0a}$ | $Y_{0r}$ | $L^*_{ta}$    | $\Delta L^*_{ta}$ | $L^*_{tr}$ | $Y_{ta}$ | $(L^*_{tr})^{1/1.89}$ | $L^*_{la}$ | $\Delta L^*_{la}$ |  |
| 9                      | 125.1               | 1.0        | 180.0    | 1.0      | 85.0          | 4.7               | 1.0        | 66.0     | 1.0                   | 85.0       | 2.6               |  |
| 8                      | 111.3               | 0.875      | 132.1    | 0.731    | 80.3          | 4.1               | 0.772      | 57.2     | 0.872                 | 82.3       | 2.6               |  |
| 7                      | 97.4                | 0.75       | 93.5     | 0.514    | 76.1          | 3.5               | 0.57       | 50.1     | 0.743                 | 79.7       | 2.6               |  |
| 6                      | 83.6                | 0.625      | 63.3     | 0.345    | 72.6          | 2.9               | 0.399      | 44.6     | 0.615                 | 77.1       | 2.6               |  |
| 5                      | 69.7                | 0.5        | 40.4     | 0.217    | 69.7          | 2.2               | 0.259      | 40.4     | 0.49                  | 74.5       | 2.5               |  |
| 4                      | 55.9                | 0.375      | 23.8     | 0.124    | 67.5          | 1.6               | 0.152      | 37.4     | 0.369                 | 72.0       | 2.3               |  |
| 3                      | 42.1                | 0.25       | 12.5     | 0.06     | 66.0          | 1.0               | 0.076      | 35.3     | 0.255                 | 69.7       | 2.2               |  |
| 2                      | 28.2                | 0.125      | 5.5      | 0.021    | 65.0          | 0.5               | 0.027      | 34.0     | 0.147                 | 67.4       | 3.0               |  |
| 1                      | 14.4                | 0.0        | 1.8      | 0.0      | 64.4          |                   | 0.0        | 33.3     | 0.0                   | 64.4       |                   |  |

$\Delta L^*_{0a}=13.8$  (i=1,2,...,8) Normierung:  $Y_{taiU}=Y_{0aU} \frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$

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