**Equal 9 step grey scaling between $L^*_{0aN}$=22.3 and $L^*_{0aW}$=96.0, $Y_{0ref}$=0.4, normalisation: grey *U***

$L^*_{0aN}$=22.3, $L^*_{0aU}$=59.1, $L^*_{0aW}$=96.0, $Y_{0aN}$=3.6, $Y_{0aU}$=27.2, $Y_{0aW}$=90.0, $C_{0aY}$=$Y_{0aW}$:$Y_{0aN}$=25.0
$L^*_{tN}$=23.5, $L^*_{taU}$=59.1, $L^*_{taW}$=95.6, $Y_{taN}$=3.9, $Y_{taU}$=27.2, $Y_{taW}$=89.1, $C_{taY}$=$Y_{taW}$:$Y_{taN}$=22.6

**regularity index according to ISO/IEC 15775:2022, Annex G for 5 and 9 steps**
***g*** = 100 [Δ*L**min ] / [ Δ*L**max ]*

| | | $g^*_5$= 99, $g^*_9$= 99 intended output | | | | $g^*_5$= 96, $g^*_9$= 95 real output | | | | | $g^*_5$= 99, $g^*_9$= 98 linearized output | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $L^*$ | n0. i | L*0a | L*0r | Y0a | Y0r | L*ta | ΔL*ta | L*tr | Yta | (L*tr)$^{1/1.02}$ | L*la | ΔL*la |
| 100 | 9 | 96.0 | 1.0 | 90.0 | 1.0 | 95.6 | | 1.0 | 89.1 | 1.0 | 95.6 | |
| | | | | | | | 9.1 | | | | | 9.0 |
| | 8 | 86.8 | 0.875 | 69.6 | 0.763 | 86.5 | | 0.873 | 69.0 | 0.876 | 86.6 | |
| | | | | | | | 9.1 | | | | | 9.0 |
| 75 | 7 | 77.6 | 0.75 | 52.5 | 0.566 | 77.4 | | 0.747 | 52.1 | 0.751 | 77.7 | |
| | | | | | | | 9.1 | | | | | 9.0 |
| | 6 | 68.4 | 0.625 | 38.5 | 0.403 | 68.2 | | 0.62 | 38.3 | 0.626 | 68.7 | |
| | | | | | | | 9.1 | | | | | 9.0 |
| | 5 | 59.1 | 0.5 | 27.2 | 0.273 | 59.1 | | 0.494 | 27.2 | 0.501 | 59.6 | |
| | | | | | | | 9.0 | | | | | 9.0 |
| 50 | 4 | 49.9 | 0.375 | 18.4 | 0.171 | 50.1 | | 0.369 | 18.5 | 0.376 | 50.6 | |
| | | | | | | | 9.0 | | | | | 9.0 |
| | 3 | 40.7 | 0.25 | 11.7 | 0.094 | 41.1 | | 0.244 | 11.9 | 0.251 | 41.6 | |
| | | | | | | | 8.9 | | | | | 9.0 |
| | 2 | 31.5 | 0.125 | 6.9 | 0.038 | 32.2 | | 0.121 | 7.2 | 0.126 | 32.6 | |
| 25 | | | | | | | 8.7 | | | | | 9.1 |
| | 1 | 22.3 | 0.0 | 3.6 | 0.0 | 23.5 | | 0.0 | 3.9 | 0.0 | 23.5 | |

$\Delta L^*_{ta}$=9.2 (i=1,2,...,9) normalisation: $Y_{taiU}=Y_{0aU}\frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$

eef10−3n

**Equal 9 step grey scaling between $L^*_{0aN}$=22.3 and $L^*_{0aW}$=96.0, $Y_{0ref}$=1.8, normalisation: grey *U***

$L^*_{0aN}$=22.3, $L^*_{0aU}$=59.1, $L^*_{0aW}$=96.0, $Y_{0aN}$=3.6, $Y_{0aU}$=27.2, $Y_{0aW}$=90.0, $C_{0aY}$=$Y_{0aW}$:$Y_{0aN}$=25.0
$L^*_{tN}$=26.9, $L^*_{taU}$=59.1, $L^*_{taW}$=94.3, $Y_{taN}$=5.1, $Y_{taU}$=27.2, $Y_{taW}$=86.1, $C_{taY}$=$Y_{taW}$:$Y_{taN}$=17.0

**regularity index according to ISO/IEC 15775:2022, Annex G for 5 and 9 steps**
***g*** = 100 [Δ*L**min ] / [ Δ*L**max ]*

| | | $g^*_5$= 99, $g^*_9$= 99 intended output | | | | $g^*_5$= 86, $g^*_9$= 82 real output | | | | | $g^*_5$= 98, $g^*_9$= 98 linearized output | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $L^*$ | n0. i | L*0a | L*0r | Y0a | Y0r | L*ta | ΔL*ta | L*tr | Yta | (L*tr)$^{1/1.07}$ | L*la | ΔL*la |
| 100 | 9 | 96.0 | 1.0 | 90.0 | 1.0 | 94.3 | | 1.0 | 86.1 | 1.0 | 94.3 | |
| | | | | | | | 8.9 | | | | | 8.3 |
| | 8 | 86.8 | 0.875 | 69.6 | 0.763 | 85.5 | | 0.868 | 66.9 | 0.876 | 86.0 | |
| | | | | | | | 8.8 | | | | | 8.4 |
| 75 | 7 | 77.6 | 0.75 | 52.5 | 0.566 | 76.6 | | 0.737 | 50.9 | 0.752 | 77.6 | |
| | | | | | | | 8.8 | | | | | 8.4 |
| | 6 | 68.4 | 0.625 | 38.5 | 0.403 | 67.8 | | 0.607 | 37.8 | 0.627 | 69.2 | |
| | | | | | | | 8.7 | | | | | 8.5 |
| | 5 | 59.1 | 0.5 | 27.2 | 0.273 | 59.1 | | 0.478 | 27.2 | 0.502 | 60.7 | |
| | | | | | | | 8.6 | | | | | 8.5 |
| 50 | 4 | 49.9 | 0.375 | 18.4 | 0.171 | 50.6 | | 0.351 | 18.9 | 0.376 | 52.3 | |
| | | | | | | | 8.3 | | | | | 8.5 |
| | 3 | 40.7 | 0.25 | 11.7 | 0.094 | 42.2 | | 0.227 | 12.7 | 0.25 | 43.8 | |
| | | | | | | | 8.0 | | | | | 8.4 |
| | 2 | 31.5 | 0.125 | 6.9 | 0.038 | 34.3 | | 0.109 | 8.1 | 0.126 | 35.4 | |
| 25 | | | | | | | 7.3 | | | | | 8.5 |
| | 1 | 22.3 | 0.0 | 3.6 | 0.0 | 26.9 | | 0.0 | 5.1 | 0.0 | 26.9 | |

$\Delta L^*_{ta}$=9.2 (i=1,2,...,9) normalisation: $Y_{taiU}=Y_{0aU}\frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$

eef11−3n

**Equal 9 step grey scaling between $L^*_{0aN}$=22.3 and $L^*_{0aW}$=96.0, $Y_{0ref}$=90.0, normalisation: grey *U***

$L^*_{0aN}$=22.3, $L^*_{0aU}$=59.1, $L^*_{0aW}$=96.0, $Y_{0aN}$=3.6, $Y_{0aU}$=27.2, $Y_{0aW}$=90.0, $C_{0aY}$=$Y_{0aW}$:$Y_{0aN}$=25.0
$L^*_{tN}$=53.7, $L^*_{taU}$=59.1, $L^*_{taW}$=70.7, $Y_{taN}$=21.7, $Y_{taU}$=27.2, $Y_{taW}$=41.8, $C_{taY}$=$Y_{taW}$:$Y_{taN}$=1.9

**regularity index according to ISO/IEC 15775:2022, Annex G for 5 and 9 steps**
***g*** = 100 [Δ*L**min ] / [ Δ*L**max ]*

| | | $g^*_5$= 99, $g^*_9$= 99 intended output | | | | $g^*_5$= 30, $g^*_9$= 23 real output | | | | | $g^*_5$= 88, $g^*_9$= 74 linearized output | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $L^*$ | n0. i | L*0a | L*0r | Y0a | Y0r | L*ta | ΔL*ta | L*tr | Yta | (L*tr)$^{1/1.6}$ | L*la | ΔL*la |
| 100 | 9 | 96.0 | 1.0 | 90.0 | 1.0 | 70.7 | | 1.0 | 41.8 | 1.0 | 70.7 | |
| | | | | | | | 3.4 | | | | | 2.2 |
| | 8 | 86.8 | 0.875 | 69.6 | 0.763 | 67.3 | | 0.799 | 37.0 | 0.869 | 68.5 | |
| | | | | | | | 3.1 | | | | | 2.2 |
| 75 | 7 | 77.6 | 0.75 | 52.5 | 0.566 | 64.2 | | 0.617 | 33.1 | 0.74 | 66.3 | |
| | | | | | | | 2.7 | | | | | 2.1 |
| | 6 | 68.4 | 0.625 | 38.5 | 0.403 | 61.5 | | 0.457 | 29.8 | 0.613 | 64.1 | |
| | | | | | | | 2.3 | | | | | 2.1 |
| | 5 | 59.1 | 0.5 | 27.2 | 0.273 | 59.1 | | 0.319 | 27.2 | 0.49 | 62.0 | |
| | | | | | | | 1.9 | | | | | 2.0 |
| 50 | 4 | 49.9 | 0.375 | 18.4 | 0.171 | 57.2 | | 0.205 | 25.1 | 0.372 | 60.0 | |
| | | | | | | | 1.5 | | | | | 1.9 |
| | 3 | 40.7 | 0.25 | 11.7 | 0.094 | 55.7 | | 0.115 | 23.6 | 0.259 | 58.1 | |
| | | | | | | | 1.1 | | | | | 1.9 |
| | 2 | 31.5 | 0.125 | 6.9 | 0.038 | 54.5 | | 0.047 | 22.5 | 0.148 | 56.2 | |
| 25 | | | | | | | 0.8 | | | | | 2.5 |
| | 1 | 22.3 | 0.0 | 3.6 | 0.0 | 53.7 | | 0.0 | 21.7 | 0.0 | 53.7 | |

$\Delta L^*_{ta}$=9.2 (i=1,2,...,9) normalisation: $Y_{taiU}=Y_{0aU}\frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$

eef10−7n

**Equal 9 step grey scaling between $L^*_{0aN}$=22.3 and $L^*_{0aW}$=96.0, $Y_{0ref}$=3.6, normalisation: grey *U***

$L^*_{0aN}$=22.3, $L^*_{0aU}$=59.1, $L^*_{0aW}$=96.0, $Y_{0aN}$=3.6, $Y_{0aU}$=27.2, $Y_{0aW}$=90.0, $C_{0aY}$=$Y_{0aW}$:$Y_{0aN}$=25.0
$L^*_{tN}$=30.3, $L^*_{taU}$=59.1, $L^*_{taW}$=92.9, $Y_{taN}$=6.4, $Y_{taU}$=27.2, $Y_{taW}$=82.7, $C_{taY}$=$Y_{taW}$:$Y_{taN}$=13.0

**regularity index according to ISO/IEC 15775:2022, Annex G for 5 and 9 steps**
***g*** = 100 [Δ*L**min ] / [ Δ*L**max ]*

| | | $g^*_5$= 99, $g^*_9$= 99 intended output | | | | $g^*_5$= 77, $g^*_9$= 71 real output | | | | | $g^*_5$= 98, $g^*_9$= 97 linearized output | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $L^*$ | n0. i | L*0a | L*0r | Y0a | Y0r | L*ta | ΔL*ta | L*tr | Yta | (L*tr)$^{1/1.12}$ | L*la | ΔL*la |
| 100 | 9 | 96.0 | 1.0 | 90.0 | 1.0 | 92.9 | | 1.0 | 82.7 | 1.0 | 92.9 | |
| | | | | | | | 8.6 | | | | | 7.7 |
| | 8 | 86.8 | 0.875 | 69.6 | 0.763 | 84.3 | | 0.863 | 64.6 | 0.877 | 85.1 | |
| | | | | | | | 8.5 | | | | | 7.8 |
| 75 | 7 | 77.6 | 0.75 | 52.5 | 0.566 | 75.8 | | 0.727 | 49.5 | 0.752 | 77.4 | |
| | | | | | | | 8.4 | | | | | 7.8 |
| | 6 | 68.4 | 0.625 | 38.5 | 0.403 | 67.4 | | 0.593 | 37.1 | 0.627 | 69.5 | |
| | | | | | | | 8.2 | | | | | 7.9 |
| | 5 | 59.1 | 0.5 | 27.2 | 0.273 | 59.1 | | 0.461 | 27.2 | 0.501 | 61.6 | |
| | | | | | | | 8.0 | | | | | 7.9 |
| 50 | 4 | 49.9 | 0.375 | 18.4 | 0.171 | 51.1 | | 0.333 | 19.4 | 0.375 | 53.8 | |
| | | | | | | | 7.6 | | | | | 7.8 |
| | 3 | 40.7 | 0.25 | 11.7 | 0.094 | 43.5 | | 0.211 | 13.5 | 0.249 | 45.9 | |
| | | | | | | | 7.0 | | | | | 7.7 |
| | 2 | 31.5 | 0.125 | 6.9 | 0.038 | 36.5 | | 0.098 | 9.2 | 0.126 | 38.2 | |
| 25 | | | | | | | 6.1 | | | | | 7.9 |
| | 1 | 22.3 | 0.0 | 3.6 | 0.0 | 30.3 | | 0.0 | 6.4 | 0.0 | 30.3 | |

$\Delta L^*_{ta}$=9.2 (i=1,2,...,9) normalisation: $Y_{taiU}=Y_{0aU}\frac{Y_{0ai}+Y_{0ref}}{Y_{0aU}+Y_{0ref}}$

eef11−7n

Test chart eef1; Equal 9 step grey scaling for four display reflections $Y_{ref}$=0,4, 90,0, 1,8, 3,6 between black $L^*_N$=22,3, $Y_N$=3,6 and white $L^*_W$=96,0, $Y_W$=90,0, normalisation: grey *U*