

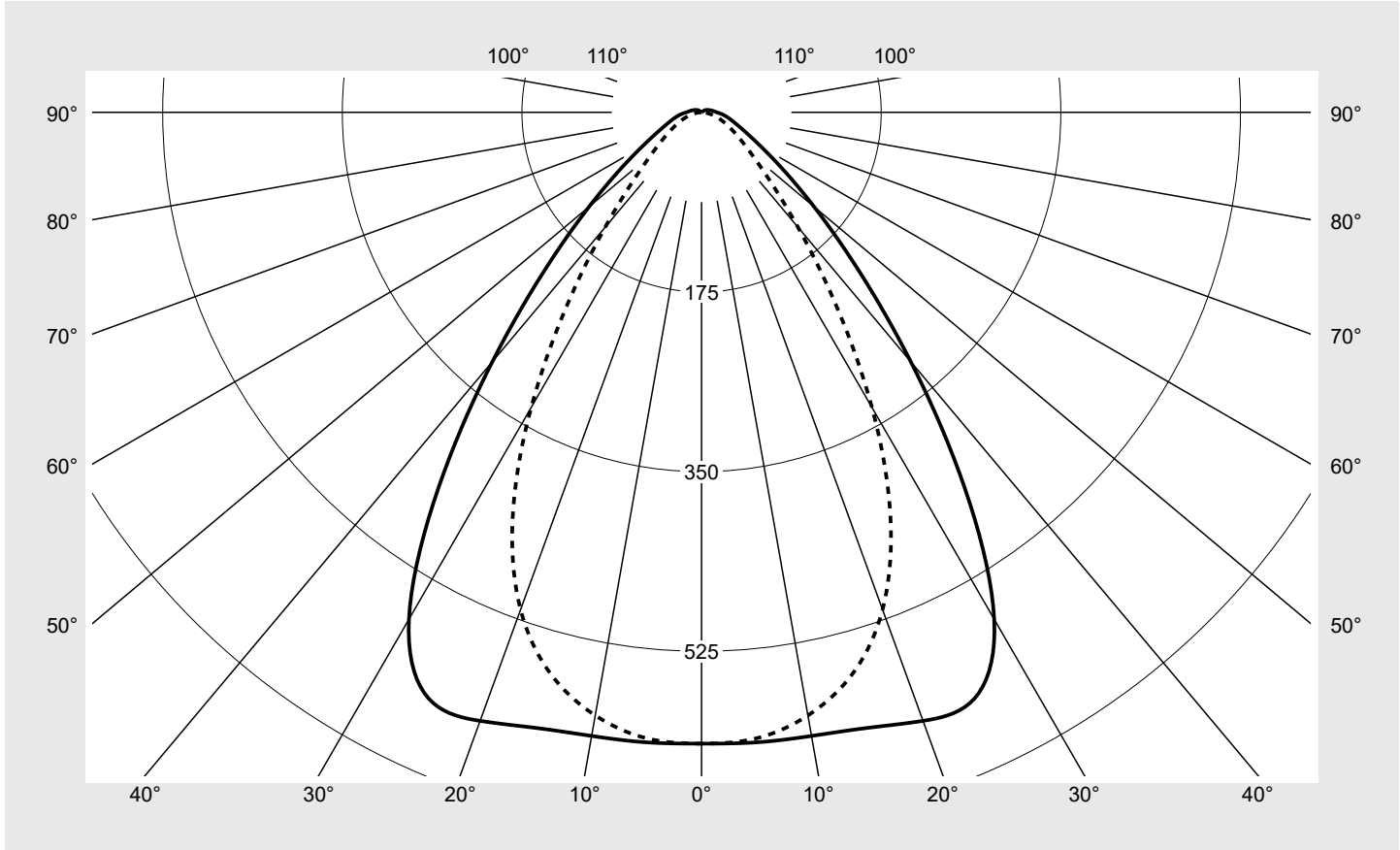


# Photometric test report

|  |   |   |
|--|---|---|
| <b>Family</b><br><b>Licross® 21 Protected</b>                                    | <b>Order number: 52TP12DN4A5G3S</b><br><b>EAN: 4058352908341</b>  | <b>LP number</b><br><b>58524_257</b>  |
|  | <b>Version</b> prismatic cover, frosted, wide distribution<br><b>Lamps</b> LED 4000 K   CRI ≥ 80<br><b>Controlgear</b> ECG-DALI<br><b>Setting</b> emergency light operation: 3 h<br><b>Rated values</b> Net luminous flux = 940 lm<br>Power consumption = 6.8 W<br>Luminous efficacy = 138.2 lm/W | <b>serial documentation</b><br><b>17.08.2023</b>                                    |
|  |   |  |

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 631 cd/klm**



| Classifications |                                   |
|-----------------|-----------------------------------|
| DIN 5040        | A 5 1                             |
| CIE             | N1=73 N2=92 N3=98<br>N4=99 N5=100 |

| Luminaire light output ratios |        |
|-------------------------------|--------|
| $\eta_{LB}$                   | 100.0% |
| $\phi_u$                      | 98.6%  |
| $\phi_o$                      | 1.4%   |

| Measurement conditions    |
|---------------------------|
| DIN EN 13032 and DIN 5032 |

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| <b>Table of values for luminous intensities</b> |  | <b>Maximum luminous intensity</b> |
|   |  | <b>sITeco</b>                     |

| C-planes<br>γ                | 0°<br>180° | 15°                  | 30°                  | 45°                  | 60°                  | 75°                  | 90°<br>270° | Phi-zone                | Total<br>Phi-zone |
|------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|-------------------------|-------------------|
|                              |            | 165°<br>195°<br>345° | 150°<br>210°<br>330° | 135°<br>225°<br>315° | 120°<br>240°<br>300° | 105°<br>255°<br>285° |             |                         |                   |
| Luminous intensity in cd/klm |            |                      |                      |                      |                      |                      |             | Luminous flux in lm/klm |                   |
| 0°                           | 615.0      | 615.0                | 615.0                | 615.0                | 615.0                | 615.0                | 615.0       | 3.7                     | 3.7               |
| 5°                           | 616.1      | 614.1                | 609.7                | 611.1                | 612.9                | 611.9                | 612.2       | 29.3                    | 32.9              |
| 10°                          | 616.9      | 615.1                | 606.4                | 602.8                | 600.3                | 597.0                | 596.6       | 57.6                    | 90.5              |
| 15°                          | 620.9      | 617.8                | 600.9                | 587.5                | 576.7                | 568.6                | 566.8       | 83.8                    | 174.3             |
| 20°                          | 630.8      | 623.5                | 591.7                | 561.2                | 536.7                | 520.1                | 515.5       | 106.4                   | 280.7             |
| 25°                          | 629.8      | 620.7                | 576.3                | 523.2                | 476.9                | 445.6                | 435.5       | 122.6                   | 403.3             |
| 30°                          | 570.2      | 568.9                | 534.3                | 469.6                | 398.0                | 348.4                | 331.9       | 126.5                   | 529.9             |
| 35°                          | 447.2      | 456.9                | 450.2                | 394.1                | 307.5                | 246.5                | 227.0       | 114.9                   | 644.8             |
| 40°                          | 317.0      | 331.0                | 344.1                | 303.2                | 220.2                | 163.1                | 146.0       | 93.6                    | 738.3             |
| 45°                          | 213.9      | 226.3                | 244.1                | 214.7                | 147.7                | 105.6                | 94.0        | 70.6                    | 808.9             |
| 50°                          | 143.1      | 152.0                | 166.9                | 144.8                | 97.7                 | 70.8                 | 64.1        | 51.5                    | 860.4             |
| 55°                          | 96.6       | 102.1                | 111.9                | 95.1                 | 64.8                 | 49.7                 | 46.3        | 37.0                    | 897.4             |
| 60°                          | 67.0       | 69.6                 | 74.2                 | 63.4                 | 44.8                 | 36.0                 | 34.5        | 26.8                    | 924.2             |
| 65°                          | 49.0       | 49.5                 | 50.0                 | 42.8                 | 32.0                 | 26.6                 | 25.7        | 19.7                    | 943.9             |
| 70°                          | 37.9       | 37.0                 | 34.4                 | 29.4                 | 23.3                 | 19.5                 | 18.8        | 14.8                    | 958.7             |
| 75°                          | 30.5       | 28.7                 | 24.6                 | 20.4                 | 16.6                 | 13.6                 | 12.7        | 11.1                    | 969.8             |
| 80°                          | 24.8       | 22.7                 | 18.1                 | 14.1                 | 11.2                 | 8.8                  | 7.6         | 8.2                     | 978.0             |
| 85°                          | 19.7       | 17.8                 | 13.4                 | 9.8                  | 7.1                  | 4.8                  | 3.4         | 5.9                     | 983.8             |
| 90°                          | 14.9       | 13.4                 | 9.7                  | 6.4                  | 4.0                  | 1.9                  | 0.4         | 3.9                     | 987.8             |
| 95°                          | 12.2       | 11.1                 | 8.2                  | 5.4                  | 3.1                  | 1.2                  | 0.3         | 3.2                     | 991.0             |
| 100°                         | 10.0       | 9.2                  | 6.9                  | 4.5                  | 2.4                  | 0.7                  | 0.3         | 2.6                     | 993.6             |
| 105°                         | 8.2        | 7.6                  | 5.7                  | 3.6                  | 1.7                  | 0.4                  | 0.3         | 2.1                     | 995.6             |
| 110°                         | 6.8        | 6.2                  | 4.6                  | 2.7                  | 1.1                  | 0.3                  | 0.3         | 1.6                     | 997.2             |
| 115°                         | 5.5        | 5.0                  | 3.7                  | 2.0                  | 0.7                  | 0.4                  | 0.4         | 1.2                     | 998.4             |
| 120°                         | 4.3        | 3.8                  | 2.7                  | 1.4                  | 0.6                  | 0.5                  | 0.5         | 0.9                     | 999.3             |
| 125°                         | 3.1        | 2.7                  | 1.8                  | 0.9                  | 0.6                  | 0.6                  | 0.6         | 0.6                     | 1000.0            |
| 130°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 135°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 140°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 145°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 150°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 155°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 160°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 165°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 170°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 175°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 180°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |

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|--|--|-------------------------------|
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|--|--|-------------------------------|

|           |               |        |  |  |  |  |  |  |  |  |
|-----------|---------------|--------|--|--|--|--|--|--|--|--|
| UGR-Table | Standard room | siteco |  |  |  |  |  |  |  |  |
|-----------|---------------|--------|--|--|--|--|--|--|--|--|

|                              |                     |      |      |      |      |                    |      |      |      |      |      |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| Reflection factor of ceiling | 0.7                 | 0.7  | 0.5  | 0.5  | 0.3  | 0.7                | 0.7  | 0.5  | 0.5  | 0.3  |      |
| Reflection factor of walls   | 0.5                 | 0.3  | 0.5  | 0.3  | 0.3  | 0.5                | 0.3  | 0.5  | 0.3  | 0.3  |      |
| Reflection factor of floor   | 0.2                 | 0.2  | 0.2  | 0.2  | 0.2  | 0.2                | 0.2  | 0.2  | 0.2  | 0.2  |      |
| Room dimensions              | View crosswise (C0) |      |      |      |      | View endwise (C90) |      |      |      |      |      |
| x                            | y                   |      |      |      |      |                    |      |      |      |      |      |
| 2H                           | 2H                  | 13.1 | 14.5 | 13.4 | 14.8 | 15.1               | 9.8  | 11.2 | 10.2 | 11.5 | 11.9 |
|                              | 3H                  | 13.5 | 14.7 | 13.9 | 15.1 | 15.4               | 10.1 | 11.4 | 10.5 | 11.8 | 12.1 |
|                              | 4H                  | 13.7 | 14.9 | 14.1 | 15.2 | 15.6               | 10.3 | 11.5 | 10.7 | 11.9 | 12.2 |
|                              | 6H                  | 14.0 | 15.0 | 14.4 | 15.4 | 15.8               | 10.4 | 11.5 | 10.8 | 11.9 | 12.3 |
|                              | 8H                  | 14.2 | 15.1 | 14.7 | 15.5 | 15.9               | 10.5 | 11.5 | 10.9 | 11.9 | 12.3 |
|                              | 12H                 | 14.4 | 15.2 | 14.8 | 15.6 | 16.1               | 10.5 | 11.5 | 11.0 | 11.9 | 12.3 |
| 4H                           | 2H                  | 13.1 | 14.3 | 13.5 | 14.7 | 15.0               | 10.3 | 11.5 | 10.7 | 11.8 | 12.2 |
|                              | 3H                  | 13.7 | 14.7 | 14.1 | 15.0 | 15.5               | 10.8 | 11.8 | 11.2 | 12.2 | 12.6 |
|                              | 4H                  | 14.0 | 14.9 | 14.4 | 15.3 | 15.7               | 11.0 | 11.9 | 11.5 | 12.3 | 12.8 |
|                              | 6H                  | 14.4 | 15.2 | 14.9 | 15.6 | 16.1               | 11.2 | 12.0 | 11.7 | 12.4 | 12.9 |
|                              | 8H                  | 14.6 | 15.3 | 15.1 | 15.8 | 16.2               | 11.3 | 12.0 | 11.8 | 12.4 | 12.9 |
|                              | 12H                 | 14.9 | 15.5 | 15.4 | 16.0 | 16.5               | 11.4 | 12.0 | 11.8 | 12.4 | 12.9 |
| 8H                           | 4H                  | 14.0 | 14.7 | 14.5 | 15.2 | 15.6               | 11.3 | 11.9 | 11.7 | 12.4 | 12.8 |
|                              | 6H                  | 14.5 | 15.1 | 15.0 | 15.6 | 16.1               | 11.5 | 12.1 | 12.0 | 12.6 | 13.1 |
|                              | 8H                  | 14.8 | 15.3 | 15.3 | 15.8 | 16.3               | 11.6 | 12.2 | 12.1 | 12.6 | 13.2 |
|                              | 12H                 | 15.2 | 15.6 | 15.7 | 16.1 | 16.7               | 11.8 | 12.2 | 12.3 | 12.7 | 13.2 |
| 12H                          | 4H                  | 14.0 | 14.6 | 14.5 | 15.1 | 15.6               | 11.3 | 11.9 | 11.8 | 12.3 | 12.8 |
|                              | 6H                  | 14.5 | 15.0 | 15.0 | 15.5 | 16.0               | 11.6 | 12.1 | 12.2 | 12.6 | 13.1 |
|                              | 8H                  | 14.9 | 15.3 | 15.4 | 15.8 | 16.3               | 11.8 | 12.2 | 12.3 | 12.7 | 13.2 |

|                 |                                 |                               |                    |                          |                             |
|-----------------|---------------------------------|-------------------------------|--------------------|--------------------------|-----------------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1480<br>B = 78 | H(C0) = 13<br>H(C90) = 0 | H(C180) = 13<br>H(C270) = 0 |
|-----------------|---------------------------------|-------------------------------|--------------------|--------------------------|-----------------------------|

| C-planes | $\gamma$ | Luminance in cd/m <sup>2</sup> |                             |                             |                             |                             |                             |             |  |
|----------|----------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
|          |          | 0°<br>180°                     | 15°<br>165°<br>195°<br>345° | 30°<br>150°<br>210°<br>330° | 45°<br>135°<br>225°<br>315° | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270° |  |
| 45°      |          | 2111.6                         | 2244.2                      | 2456.3                      | 2211.5                      | 1569.8                      | 1166.0                      | 1082.9      |  |
| 50°      |          | 1512.0                         | 1615.6                      | 1804.4                      | 1608.8                      | 1125.9                      | 852.7                       | 811.5       |  |
| 55°      |          | 1107.2                         | 1178.1                      | 1316.7                      | 1155.6                      | 822.2                       | 664.1                       | 657.4       |  |
| 60°      |          | 847.2                          | 886.2                       | 967.0                       | 857.2                       | 636.9                       | 546.1                       | 561.2       |  |
| 65°      |          | 696.1                          | 709.5                       | 735.0                       | 657.6                       | 522.6                       | 469.9                       | 495.2       |  |
| 70°      |          | 619.0                          | 611.4                       | 587.2                       | 529.2                       | 450.5                       | 415.8                       | 446.7       |  |
| 75°      |          | 591.8                          | 564.5                       | 502.1                       | 446.2                       | 397.8                       | 368.7                       | 401.0       |  |
| 80°      |          | 598.3                          | 556.9                       | 467.3                       | 396.4                       | 357.9                       | 330.8                       | 356.5       |  |
| 85°      |          | 632.5                          | 584.5                       | 474.0                       | 388.7                       | 342.0                       | 302.3                       | 322.0       |  |

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|   |  |                                      |
|---|--|--------------------------------------|
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|---|--|--------------------------------------|

**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°

**siteco**

