

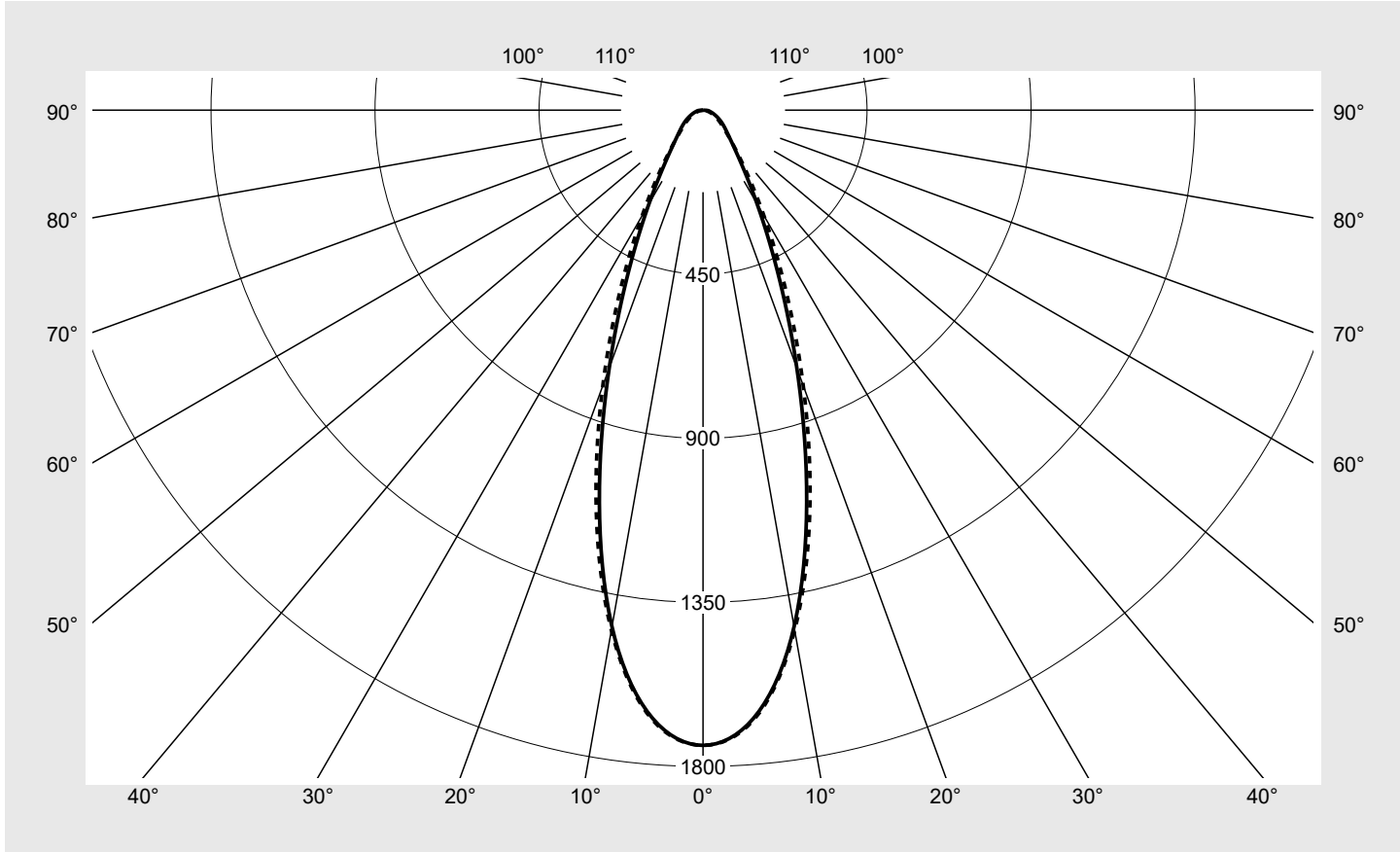


# Photometric test report

|  |   |   |
|--|---|---|
| <b>Family</b><br><b>Licross® 21 Protected</b>                                    | <b>Order number: 52TP11DN4AXG</b><br><b>EAN: 4058352903704</b>  | <b>LP number</b><br><b>58526_179</b>  |
|  | <b>Version</b> prismatic cover, frosted, narrow distribution<br><b>Lamps</b> LED 4000 K   CRI ≥ 80<br><b>Controlgear</b> ECG-DALI | <b>serial documentation</b><br><b>03.08.2023</b>                                    |
|  | <b>Rated values</b><br>Net luminous flux = 10000 lm<br>Power consumption = 57.8 W<br>Luminous efficacy = 173 lm/W                 |  |

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 1742 cd/klm**



| Classifications |                                    |
|-----------------|------------------------------------|
| DIN 5040        | A 7 0                              |
| CIE             | N1=83 N2=94 N3=98<br>N4=100 N5=100 |

| Luminaire light output ratios |        |
|-------------------------------|--------|
| $\eta_{LB}$                   | 100.0% |
| $\phi_u$                      | 100.0% |
| $\phi_o$                      | 0.0%   |

**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°                           | 1742.2     | 1742.2               | 1742.2               | 1742.2               | 1742.2               | 1742.2               | 1742.2                  | 10.4     | 10.4              |
| 5°                           | 1666.1     | 1675.3               | 1660.6               | 1665.8               | 1671.6               | 1669.6               | 1670.7                  | 79.7     | 90.1              |
| 10°                          | 1438.7     | 1454.0               | 1443.6               | 1449.9               | 1452.8               | 1449.1               | 1448.5                  | 137.9    | 228.0             |
| 15°                          | 1099.0     | 1113.1               | 1114.3               | 1128.7               | 1137.3               | 1134.2               | 1132.4                  | 159.4    | 387.5             |
| 20°                          | 752.6      | 761.9                | 768.4                | 788.3                | 803.8                | 805.8                | 803.7                   | 147.1    | 534.5             |
| 25°                          | 477.8      | 482.8                | 489.1                | 506.4                | 523.2                | 529.8                | 529.1                   | 117.2    | 651.7             |
| 30°                          | 296.4      | 297.2                | 300.0                | 310.9                | 324.6                | 332.2                | 333.5                   | 85.9     | 737.6             |
| 35°                          | 189.3      | 187.5                | 185.3                | 189.4                | 198.7                | 205.9                | 208.7                   | 61.1     | 798.7             |
| 40°                          | 131.6      | 127.9                | 121.5                | 120.2                | 125.3                | 132.4                | 136.6                   | 44.7     | 843.4             |
| 45°                          | 99.4       | 94.4                 | 85.5                 | 81.0                 | 83.2                 | 90.3                 | 95.8                    | 34.4     | 877.7             |
| 50°                          | 79.8       | 74.4                 | 64.7                 | 58.7                 | 59.3                 | 65.8                 | 72.1                    | 27.9     | 905.7             |
| 55°                          | 65.2       | 60.1                 | 51.3                 | 45.2                 | 44.8                 | 50.3                 | 56.0                    | 23.4     | 929.0             |
| 60°                          | 52.4       | 48.1                 | 41.3                 | 36.1                 | 35.0                 | 38.9                 | 43.4                    | 19.6     | 948.6             |
| 65°                          | 41.2       | 37.9                 | 33.1                 | 29.2                 | 27.7                 | 29.8                 | 32.8                    | 16.1     | 964.7             |
| 70°                          | 31.9       | 29.5                 | 26.2                 | 23.4                 | 21.7                 | 22.1                 | 23.6                    | 12.9     | 977.6             |
| 75°                          | 24.4       | 22.6                 | 20.2                 | 18.2                 | 16.5                 | 15.4                 | 15.7                    | 10.0     | 987.6             |
| 80°                          | 18.3       | 17.0                 | 15.2                 | 13.6                 | 11.8                 | 9.9                  | 9.2                     | 7.3      | 994.9             |
| 85°                          | 13.3       | 12.5                 | 11.1                 | 9.7                  | 7.7                  | 5.4                  | 4.2                     | 5.0      | 1000.0            |
| 90°                          | 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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|--|--|-------------------------------|

|                  |                      |               |
|------------------|----------------------|---------------|
| <b>UGR-Table</b> | <b>Standard room</b> | <b>siteco</b> |
|------------------|----------------------|---------------|

|                              |                     |      |      |      |      |                    |      |      |      |      |      |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| 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                  | 16.6 | 17.8 | 16.9 | 18.1 | 18.5               | 16.4 | 17.7 | 16.8 | 18.0 | 18.3 |
|                              | 3H                  | 17.7 | 18.8 | 18.1 | 19.1 | 19.5               | 17.3 | 18.4 | 17.7 | 18.8 | 19.1 |
|                              | 4H                  | 18.2 | 19.2 | 18.6 | 19.6 | 20.0               | 17.7 | 18.7 | 18.1 | 19.1 | 19.4 |
|                              | 6H                  | 18.7 | 19.6 | 19.1 | 20.0 | 20.4               | 18.0 | 18.9 | 18.4 | 19.3 | 19.7 |
|                              | 8H                  | 19.0 | 19.8 | 19.5 | 20.2 | 20.6               | 18.2 | 19.0 | 18.6 | 19.3 | 19.8 |
|                              | 12H                 | 19.3 | 20.0 | 19.7 | 20.4 | 20.8               | 18.3 | 19.0 | 18.7 | 19.4 | 19.8 |
| 4H                           | 2H                  | 16.8 | 17.8 | 17.2 | 18.2 | 18.6               | 16.7 | 17.7 | 17.1 | 18.0 | 18.4 |
|                              | 3H                  | 18.1 | 19.0 | 18.5 | 19.3 | 19.8               | 17.7 | 18.6 | 18.2 | 19.0 | 19.4 |
|                              | 4H                  | 18.8 | 19.5 | 19.2 | 19.9 | 20.4               | 18.2 | 19.0 | 18.7 | 19.4 | 19.8 |
|                              | 6H                  | 19.4 | 20.1 | 19.9 | 20.5 | 21.0               | 18.6 | 19.3 | 19.1 | 19.7 | 20.2 |
|                              | 8H                  | 19.7 | 20.3 | 20.2 | 20.8 | 21.2               | 18.8 | 19.3 | 19.3 | 19.8 | 20.3 |
|                              | 12H                 | 20.1 | 20.6 | 20.6 | 21.0 | 21.5               | 18.9 | 19.4 | 19.4 | 19.9 | 20.4 |
| 8H                           | 4H                  | 18.9 | 19.5 | 19.4 | 20.0 | 20.4               | 18.4 | 19.0 | 18.9 | 19.5 | 19.9 |
|                              | 6H                  | 19.7 | 20.2 | 20.2 | 20.7 | 21.2               | 19.0 | 19.4 | 19.5 | 19.9 | 20.4 |
|                              | 8H                  | 20.1 | 20.5 | 20.6 | 21.0 | 21.6               | 19.2 | 19.6 | 19.7 | 20.1 | 20.6 |
|                              | 12H                 | 20.6 | 20.9 | 21.1 | 21.4 | 22.0               | 19.4 | 19.7 | 19.9 | 20.2 | 20.8 |
| 12H                          | 4H                  | 19.0 | 19.4 | 19.5 | 19.9 | 20.4               | 18.5 | 19.0 | 19.0 | 19.4 | 19.9 |
|                              | 6H                  | 19.8 | 20.2 | 20.3 | 20.7 | 21.2               | 19.1 | 19.4 | 19.6 | 19.9 | 20.5 |
|                              | 8H                  | 20.3 | 20.6 | 20.8 | 21.1 | 21.6               | 19.3 | 19.7 | 19.9 | 20.2 | 20.7 |

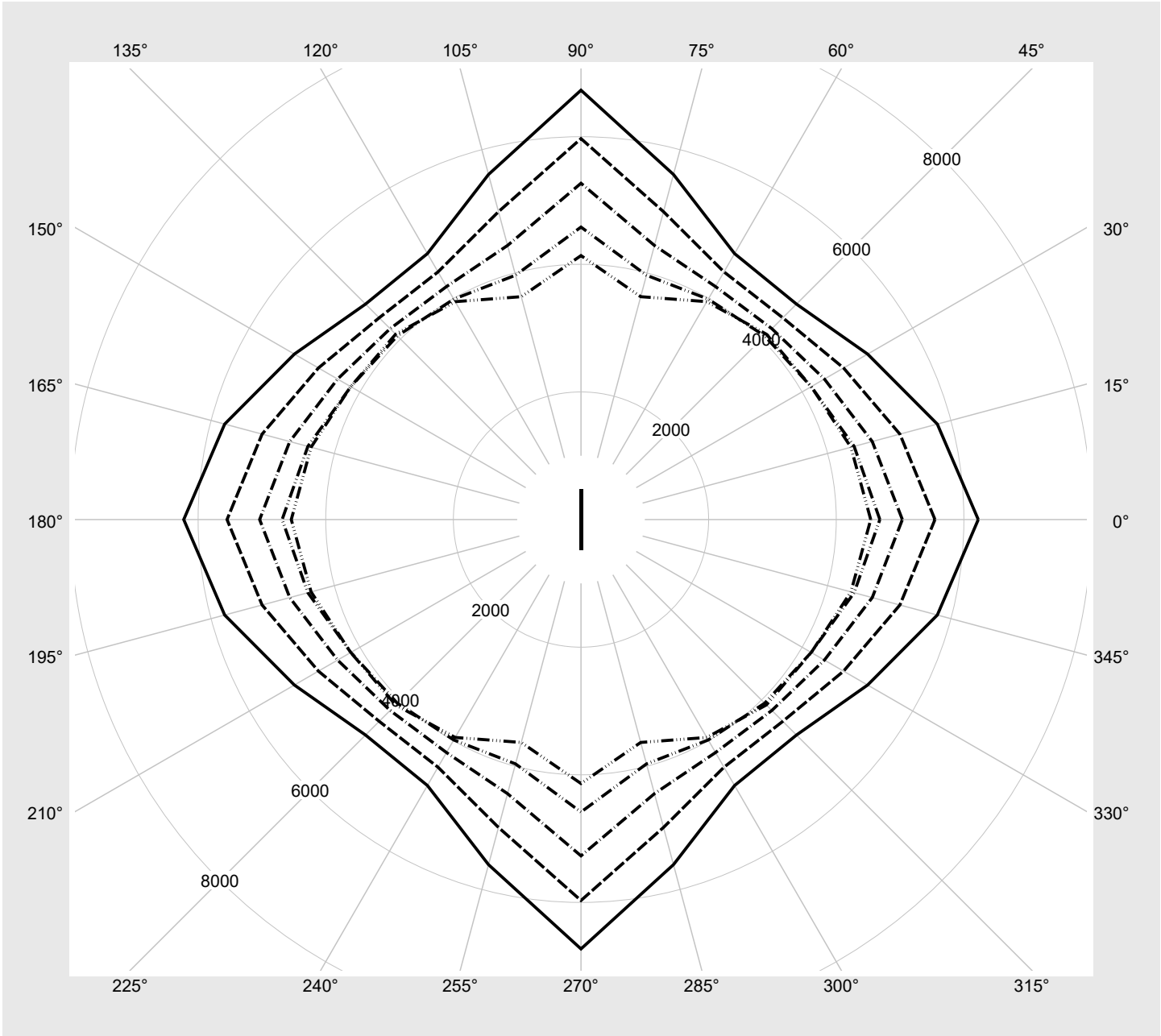
|                        |   |                                      |                 |                   |                     |
|------------------------|---|--------------------------------------|-----------------|-------------------|---------------------|
| <b>Luminance table</b> | <b>Max. for <math>\gamma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

| 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°      | 45°      | 10440.3                        | 9961.8                      | 9150.3                      | 8879.7                      | 9413.2                      | 10603.6                     | 11731.7     |  |
| 50°      | 50°      | 8972.1                         | 8408.5                      | 7441.4                      | 6938.5                      | 7268.0                      | 8439.3                      | 9714.5      |  |
| 55°      | 55°      | 7950.2                         | 7375.9                      | 6427.0                      | 5842.4                      | 6049.8                      | 7154.2                      | 8463.5      |  |
| 60°      | 60°      | 7042.5                         | 6522.7                      | 5726.4                      | 5188.3                      | 5292.9                      | 6272.5                      | 7516.6      |  |
| 65°      | 65°      | 6225.3                         | 5780.9                      | 5186.4                      | 4775.4                      | 4812.9                      | 5598.9                      | 6728.6      |  |
| 70°      | 70°      | 5546.8                         | 5173.6                      | 4751.2                      | 4472.0                      | 4481.4                      | 4995.0                      | 5969.7      |  |
| 75°      | 75°      | 5035.9                         | 4725.1                      | 4404.4                      | 4230.2                      | 4216.0                      | 4447.1                      | 5270.1      |  |
| 80°      | 80°      | 4683.3                         | 4431.0                      | 4165.1                      | 4070.4                      | 3988.2                      | 3964.3                      | 4583.5      |  |
| 85°      | 85°      | 4540.2                         | 4379.0                      | 4166.5                      | 4108.1                      | 3943.1                      | 3616.0                      | 4136.7      |  |

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**Luminance values in cd/m<sup>2</sup>**      γ 65°    γ 70°    γ 75°    γ 80°    γ 85°      **siteco**



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

|                             |                                 |               |
|-----------------------------|---------------------------------|---------------|
| <b>Dimming levels table</b> | environmental temperature: 25°C | <b>sITeco</b> |
|-----------------------------|---------------------------------|---------------|

| Luminous flux % | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-----------------|----------------------|---------------------------|--------------------|-----------------------|
| 100             | 254                  | 254                       | 10000              | 57.8                  |
| 95              | 240                  | 252                       | 9493               | 54.6                  |
| 90              | 227                  | 250                       | 9017               | 51.6                  |
| 85              | 213                  | 248                       | 8499               | 48.5                  |
| 80              | 200                  | 245                       | 8012               | 45.6                  |
| 75              | 186                  | 243                       | 7483               | 42.5                  |
| 70              | 173                  | 240                       | 6988               | 39.5                  |
| 65              | 160                  | 237                       | 6489               | 36.7                  |
| 60              | 147                  | 234                       | 5984               | 33.7                  |
| 55              | 135                  | 231                       | 5518               | 31.1                  |
| 50              | 122                  | 227                       | 5004               | 28.2                  |
| 45              | 109                  | 223                       | 4486               | 25.4                  |
| 40              | 97                   | 219                       | 4004               | 22.8                  |
| 35              | 85                   | 214                       | 3517               | 20.2                  |
| 30              | 72                   | 208                       | 2989               | 17.5                  |
| 25              | 60                   | 201                       | 2496               | 14.9                  |
| 20              | 48                   | 193                       | 1999               | 12.3                  |
| 15              | 36                   | 182                       | 1499               | 9.6                   |
| 10              | 24                   | 168                       | 996                | 7.2                   |
| 5               | 12                   | 142                       | 493                | 4.7                   |
| 2               | 4                    | 102                       | 153                | 3.0                   |