
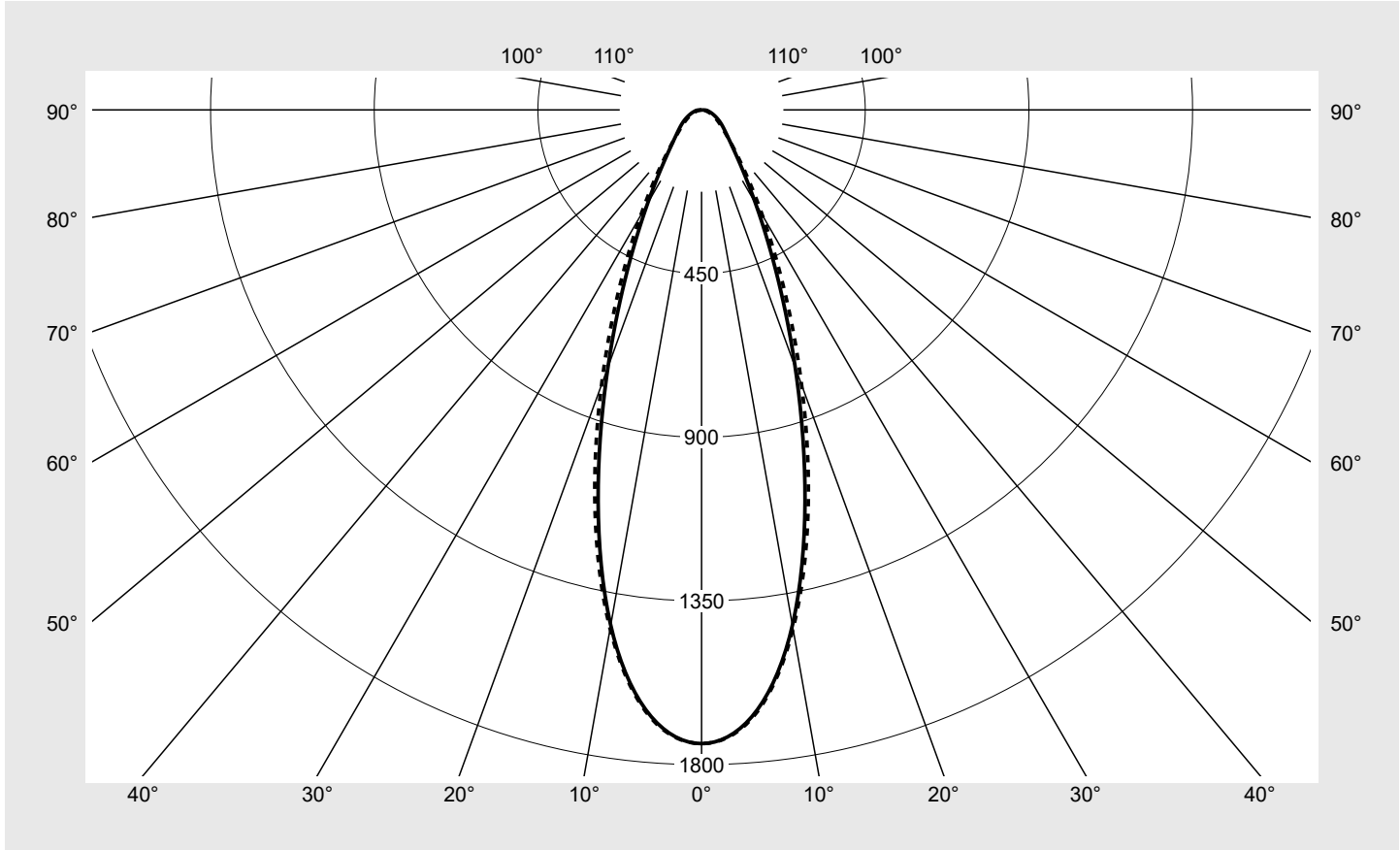


# Photometric test report

|  |   |   |
|--|---|---|
| <b>Family</b><br><b>Licross® 21 Protected</b>                                    | <b>Order number: 52TD11CN49XG</b><br><b>EAN: 4058352902516</b>  | <b>LP number</b><br><b>58526_194</b>  |
|  | <b>Version</b> prismatic cover, frosted, narrow distribution<br><b>Lamps</b> LED 4000 K   CRI ≥ 80<br><b>Controlgear</b> ECG-Multilumen CLOi<br><b>Rated values</b> Net luminous flux = 9070 lm<br>Power consumption = 50.4 W<br>Luminous efficacy = 180 lm/W | <b>serial documentation</b><br><b>17.08.2023</b>                                    |
|  |   |  |

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

| C-planes<br>$\gamma$         | 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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|--|--|-------------------------------|

|                  |                      |               |
|------------------|----------------------|---------------|
| <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                  | 16.2 | 17.5 | 16.6 | 17.8 | 18.1               | 16.1 | 17.3 | 16.5 | 17.6 | 18.0 |
|                              | 3H                  | 17.3 | 18.4 | 17.7 | 18.8 | 19.1               | 17.0 | 18.1 | 17.4 | 18.4 | 18.8 |
|                              | 4H                  | 17.9 | 18.9 | 18.3 | 19.2 | 19.6               | 17.4 | 18.4 | 17.8 | 18.7 | 19.1 |
|                              | 6H                  | 18.4 | 19.3 | 18.8 | 19.7 | 20.0               | 17.7 | 18.6 | 18.1 | 18.9 | 19.3 |
|                              | 8H                  | 18.7 | 19.5 | 19.1 | 19.9 | 20.3               | 17.9 | 18.6 | 18.3 | 19.0 | 19.4 |
|                              | 12H                 | 18.9 | 19.6 | 19.4 | 20.0 | 20.5               | 17.9 | 18.6 | 18.4 | 19.0 | 19.4 |
| 4H                           | 2H                  | 16.5 | 17.5 | 16.9 | 17.8 | 18.2               | 16.3 | 17.4 | 16.7 | 17.7 | 18.1 |
|                              | 3H                  | 17.8 | 18.6 | 18.2 | 19.0 | 19.4               | 17.4 | 18.2 | 17.8 | 18.6 | 19.0 |
|                              | 4H                  | 18.4 | 19.2 | 18.9 | 19.6 | 20.0               | 17.9 | 18.6 | 18.3 | 19.0 | 19.5 |
|                              | 6H                  | 19.1 | 19.7 | 19.5 | 20.2 | 20.6               | 18.3 | 18.9 | 18.8 | 19.4 | 19.8 |
|                              | 8H                  | 19.4 | 20.0 | 19.9 | 20.4 | 20.9               | 18.4 | 19.0 | 18.9 | 19.5 | 19.9 |
|                              | 12H                 | 19.8 | 20.2 | 20.3 | 20.7 | 21.2               | 18.6 | 19.0 | 19.1 | 19.5 | 20.0 |
| 8H                           | 4H                  | 18.6 | 19.2 | 19.1 | 19.6 | 20.1               | 18.1 | 18.7 | 18.6 | 19.1 | 19.6 |
|                              | 6H                  | 19.4 | 19.8 | 19.9 | 20.3 | 20.8               | 18.6 | 19.1 | 19.1 | 19.6 | 20.1 |
|                              | 8H                  | 19.8 | 20.2 | 20.3 | 20.7 | 21.2               | 18.8 | 19.3 | 19.3 | 19.7 | 20.3 |
|                              | 12H                 | 20.3 | 20.6 | 20.8 | 21.1 | 21.6               | 19.0 | 19.4 | 19.6 | 19.9 | 20.4 |
| 12H                          | 4H                  | 18.6 | 19.1 | 19.1 | 19.6 | 20.1               | 18.2 | 18.6 | 18.7 | 19.1 | 19.6 |
|                              | 6H                  | 19.4 | 19.8 | 20.0 | 20.3 | 20.8               | 18.7 | 19.1 | 19.2 | 19.6 | 20.1 |
|                              | 8H                  | 19.9 | 20.2 | 20.4 | 20.7 | 21.3               | 19.0 | 19.3 | 19.5 | 19.8 | 20.4 |

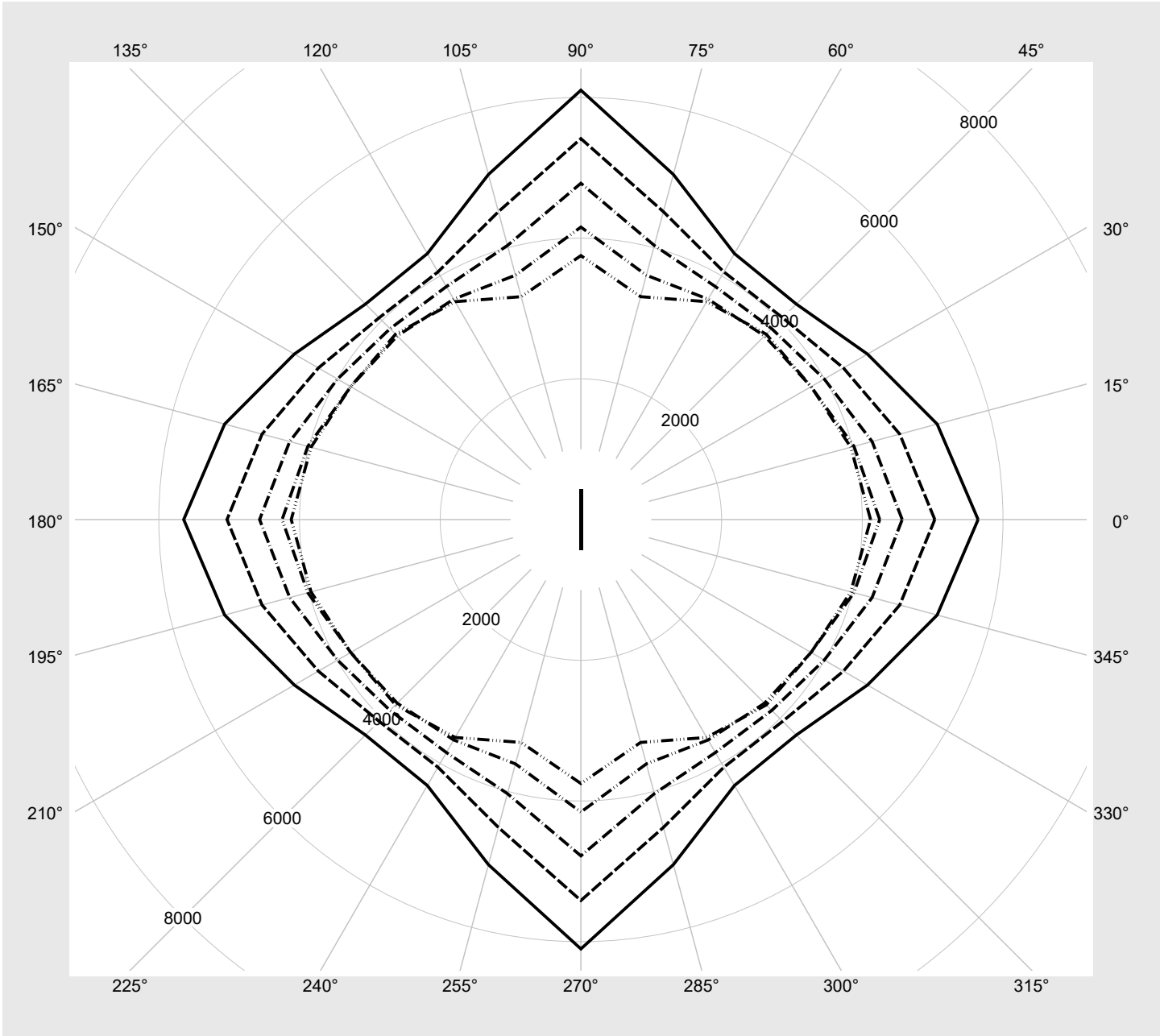
|                        |   |                                      |                 |                   |                     |
|------------------------|---|--------------------------------------|-----------------|-------------------|---------------------|
| <b>Luminance table</b> | <b>Max. for <math>\gamma \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°      | 9469.3                         | 9035.4                      | 8299.3                      | 8053.9                      | 8537.8                      | 9617.4                      | 10640.7     |  |
|          | 50°      | 8137.7                         | 7626.5                      | 6749.4                      | 6293.2                      | 6592.1                      | 7654.5                      | 8811.1      |  |
|          | 55°      | 7210.8                         | 6689.9                      | 5829.3                      | 5299.1                      | 5487.1                      | 6488.9                      | 7676.4      |  |
|          | 60°      | 6387.6                         | 5916.1                      | 5193.8                      | 4705.8                      | 4800.6                      | 5689.2                      | 6817.6      |  |
|          | 65°      | 5646.4                         | 5243.2                      | 4704.1                      | 4331.3                      | 4365.3                      | 5078.2                      | 6102.9      |  |
|          | 70°      | 5031.0                         | 4692.5                      | 4309.3                      | 4056.1                      | 4064.6                      | 4530.5                      | 5414.5      |  |
|          | 75°      | 4567.5                         | 4285.7                      | 3994.8                      | 3836.8                      | 3823.9                      | 4033.5                      | 4780.0      |  |
|          | 80°      | 4247.8                         | 4018.9                      | 3777.8                      | 3691.8                      | 3617.3                      | 3595.7                      | 4157.2      |  |
|          | 85°      | 4117.9                         | 3971.8                      | 3779.0                      | 3726.1                      | 3576.4                      | 3279.7                      | 3751.9      |  |

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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>Multilumen Table</b> | environmental temperature: 25°C | <b>sITeco</b> |
|-------------------------|---------------------------------|---------------|

| DIP-Step | Switch Setting |   |   | Luminous flux<br>[lm] | Power consumption<br>[W] | Power consumption      | Power consumption |
|----------|----------------|---|---|-----------------------|--------------------------|------------------------|-------------------|
|          | 1              | 2 | 3 |                       |                          | [W]<br>end of lifetime | [W]<br>average    |
| 1        | A              | C | E | 9070                  | 50.4                     | 60.5                   | 55.4              |
| 2        | A              | C | F | 8493                  | 47.0                     | 56.1                   | 51.6              |
| 3        | A              | D | E | 7978                  | 43.9                     | 52.6                   | 48.2              |
| 4        | A              | D | F | 7464                  | 41.0                     | 48.7                   | 44.8              |
| 5        | B              | C | E | 7023                  | 38.4                     | 45.6                   | 42.0              |
| 6        | B              | C | F | 6498                  | 35.4                     | 41.7                   | 38.6              |
| 7        | B              | D | E | 6036                  | 32.8                     | 38.8                   | 35.8              |
| 8        | B              | D | F | 5501                  | 29.9                     | 35.4                   | 32.6              |