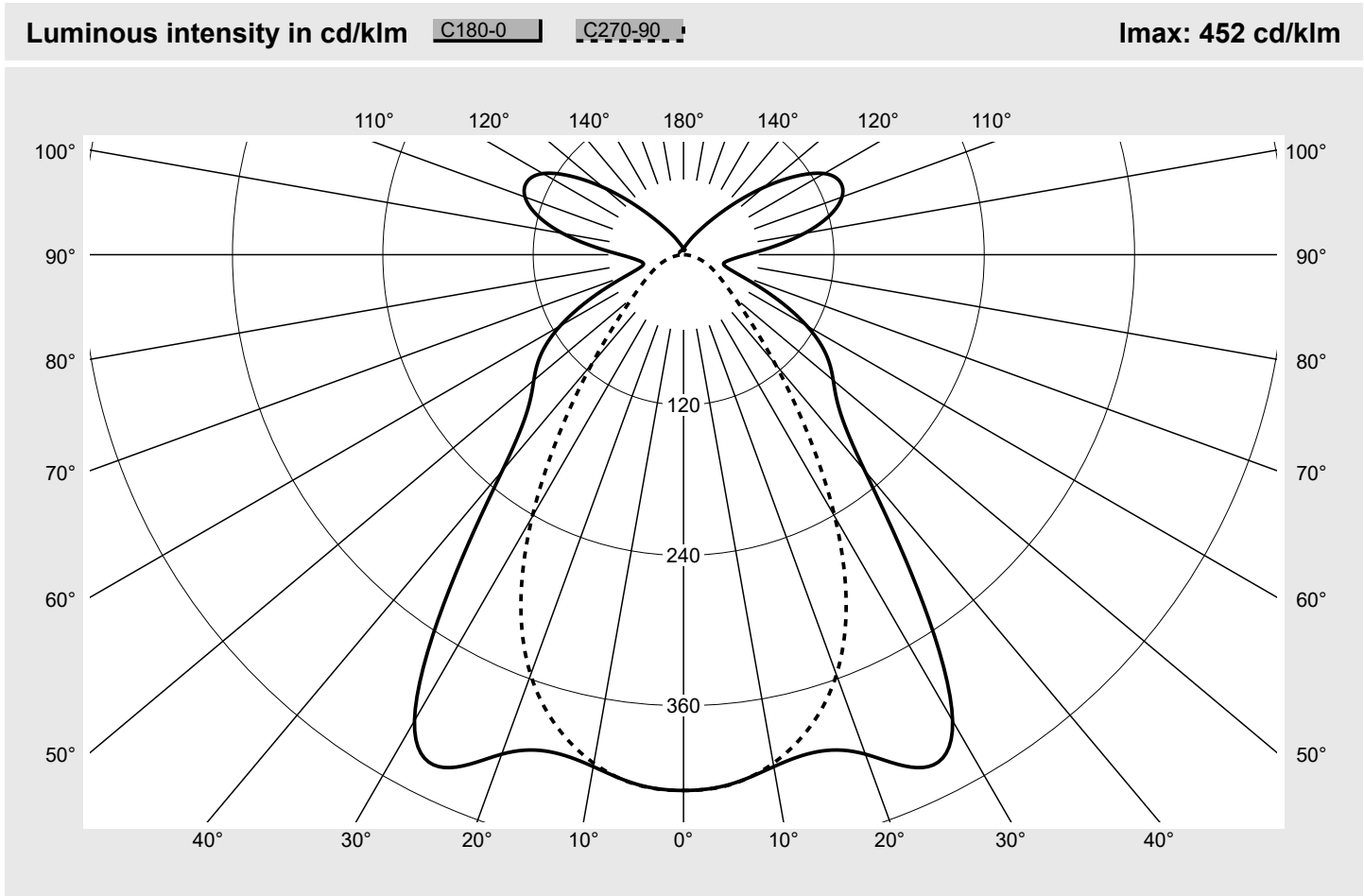


Photometric test report

|                                                                                  |                                                                  |                                                                                             |
|----------------------------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Family</b><br><b>Licross® 21 Performance</b>                                  | <b>Order number: 52TM16DN445G3S</b><br><b>EAN: 4069025178732</b> | <b>LP number</b><br><b>58520_398</b>                                                        |
|  | <b>Version</b>                                                   | cover frosted, direct-/ indirect distribution,<br>UGR≤19 (L65≤3000cd/m²)                    |
|                                                                                  | <b>Lamps</b>                                                     | LED 4000 K   CRI ≥ 80                                                                       |
|                                                                                  | <b>Controlgear</b>                                               | ECG-DALI                                                                                    |
|                                                                                  | <b>Setting</b>                                                   | AC-mode                                                                                     |
|                                                                                  | <b>Rated values</b>                                              | Net luminous flux = 4500 lm<br>Power consumption = 28.7 W<br>Luminous efficacy = 156.8 lm/W |
|                                                                                  |                                                                  | <b>serial documentation</b><br>11.07.2024                                                   |
|                                                                                  |                                                                  | <b>siteco</b>                                                                               |



| Classifications |                   | Luminaire light output ratios |        |
|-----------------|-------------------|-------------------------------|--------|
| DIN 5040        | B 5 1             | $\eta_{LB}$                   | 100.0% |
| CIE             | N1=65 N2=88 N3=96 | $\phi_u$                      | 79.3%  |
|                 | N4=79 N5=100      | $\phi_o$                      | 20.7%  |

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

Photometric test report

|                                          |                                                    |                            |
|------------------------------------------|----------------------------------------------------|----------------------------|
| Family<br>Licross® 21 Performance        | Order number: 52TM16DN445G3S<br>EAN: 4069025178732 | LP number<br>58520_398     |
| Table of values for luminous intensities |                                                    | Maximum luminous intensity |
|                                          |                                                    | siteco                     |

| C-<br>planes | 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° | Phi-zone                | Total<br>Phi-zone |
|--------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|-------------------------|-------------------|
| γ            | Luminous intensity in cd/klm |                             |                             |                             |                             |                             |             | Luminous flux in lm/klm |                   |
| 0°           | 427.7                        | 427.7                       | 427.7                       | 427.7                       | 427.7                       | 427.7                       | 427.7       | 2.6                     | 2.6               |
| 5°           | 424.4                        | 422.4                       | 420.2                       | 422.1                       | 424.3                       | 424.4                       | 424.8       | 20.2                    | 22.8              |
| 10°          | 414.9                        | 412.5                       | 408.9                       | 409.5                       | 411.2                       | 411.6                       | 412.2       | 39.1                    | 61.9              |
| 15°          | 410.8                        | 406.7                       | 398.1                       | 393.2                       | 390.9                       | 389.7                       | 390.1       | 56.3                    | 118.2             |
| 20°          | 424.3                        | 415.5                       | 394.5                       | 375.8                       | 364.0                       | 357.7                       | 356.8       | 71.8                    | 190.0             |
| 25°          | 451.7                        | 439.9                       | 403.9                       | 360.3                       | 329.2                       | 311.6                       | 307.2       | 85.9                    | 275.8             |
| 30°          | 429.5                        | 430.9                       | 412.5                       | 347.4                       | 284.5                       | 251.0                       | 241.5       | 94.2                    | 370.0             |
| 35°          | 325.6                        | 344.5                       | 379.3                       | 329.0                       | 231.5                       | 183.8                       | 171.0       | 89.9                    | 460.0             |
| 40°          | 224.9                        | 238.5                       | 293.1                       | 289.7                       | 177.2                       | 125.7                       | 113.8       | 76.0                    | 535.9             |
| 45°          | 176.4                        | 174.8                       | 199.5                       | 224.7                       | 128.0                       | 84.3                        | 75.7        | 60.6                    | 596.5             |
| 50°          | 156.0                        | 144.3                       | 136.6                       | 154.2                       | 90.2                        | 58.9                        | 53.2        | 48.2                    | 644.7             |
| 55°          | 139.0                        | 122.9                       | 98.4                        | 99.7                        | 63.9                        | 43.4                        | 39.8        | 38.7                    | 683.4             |
| 60°          | 113.7                        | 99.1                        | 72.2                        | 64.7                        | 46.3                        | 33.0                        | 30.8        | 30.7                    | 714.1             |
| 65°          | 79.7                         | 70.2                        | 51.6                        | 43.8                        | 34.5                        | 25.6                        | 24.0        | 23.0                    | 737.1             |
| 70°          | 47.7                         | 43.4                        | 35.6                        | 31.1                        | 26.2                        | 19.7                        | 18.2        | 16.2                    | 753.3             |
| 75°          | 33.9                         | 31.2                        | 26.1                        | 23.2                        | 19.9                        | 14.4                        | 12.7        | 12.2                    | 765.5             |
| 80°          | 33.7                         | 30.7                        | 23.7                        | 18.2                        | 15.1                        | 9.9                         | 7.5         | 10.6                    | 776.1             |
| 85°          | 39.3                         | 35.6                        | 26.3                        | 17.2                        | 11.4                        | 6.2                         | 3.2         | 10.7                    | 786.9             |
| 90°          | 50.4                         | 45.6                        | 32.3                        | 18.9                        | 10.0                        | 3.9                         | 0.6         | 12.4                    | 799.3             |
| 95°          | 71.3                         | 63.5                        | 42.3                        | 22.5                        | 11.4                        | 4.6                         | 1.0         | 16.4                    | 815.7             |
| 100°         | 97.9                         | 84.6                        | 52.5                        | 26.5                        | 12.9                        | 5.3                         | 1.6         | 20.8                    | 836.6             |
| 105°         | 120.7                        | 101.7                       | 62.6                        | 30.2                        | 14.2                        | 6.1                         | 2.4         | 24.4                    | 860.9             |
| 110°         | 134.6                        | 112.6                       | 69.4                        | 33.2                        | 15.3                        | 6.7                         | 2.9         | 26.3                    | 887.2             |
| 115°         | 137.8                        | 115.5                       | 72.0                        | 34.6                        | 16.0                        | 7.2                         | 3.2         | 26.1                    | 913.3             |
| 120°         | 129.6                        | 108.9                       | 68.7                        | 33.6                        | 15.7                        | 7.4                         | 3.5         | 23.8                    | 937.1             |
| 125°         | 109.1                        | 92.2                        | 59.5                        | 30.3                        | 14.7                        | 7.4                         | 3.7         | 19.5                    | 956.6             |
| 130°         | 83.4                         | 71.0                        | 47.4                        | 25.5                        | 13.2                        | 7.2                         | 3.7         | 14.5                    | 971.2             |
| 135°         | 58.6                         | 50.3                        | 35.1                        | 20.5                        | 11.4                        | 6.8                         | 3.7         | 10.0                    | 981.2             |
| 140°         | 39.2                         | 34.3                        | 25.3                        | 16.3                        | 9.8                         | 6.3                         | 3.7         | 6.7                     | 987.9             |
| 145°         | 26.6                         | 23.8                        | 18.6                        | 13.0                        | 8.2                         | 5.4                         | 3.7         | 4.4                     | 992.3             |
| 150°         | 18.7                         | 17.2                        | 14.2                        | 10.0                        | 6.9                         | 5.0                         | 3.7         | 2.9                     | 995.2             |
| 155°         | 13.8                         | 12.8                        | 10.8                        | 7.8                         | 6.8                         | 4.4                         | 3.6         | 2.0                     | 997.2             |
| 160°         | 10.2                         | 9.8                         | 7.9                         | 6.8                         | 5.6                         | 4.6                         | 3.5         | 1.3                     | 998.5             |
| 165°         | 8.2                          | 7.8                         | 6.5                         | 5.6                         | 5.0                         | 4.1                         | 3.7         | 0.8                     | 999.3             |
| 170°         | 6.4                          | 5.6                         | 4.7                         | 4.7                         | 5.0                         | 4.1                         | 3.9         | 0.5                     | 999.8             |
| 175°         | 4.2                          | 3.7                         | 4.1                         | 4.1                         | 4.1                         | 4.2                         | 4.2         | 0.2                     | 1000.0            |
| 180°         | 3.7                          | 3.7                         | 3.7                         | 3.7                         | 3.7                         | 3.7                         | 3.7         | 0.0                     | 1000.0            |

Photometric test report

|                                   |                                                    |                        |
|-----------------------------------|----------------------------------------------------|------------------------|
| Family<br>Licross® 21 Performance | Order number: 52TM16DN445G3S<br>EAN: 4069025178732 | LP number<br>58520_398 |
|-----------------------------------|----------------------------------------------------|------------------------|

| 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  | 16.3                | 17.6 | 16.9 | 18.1 | 18.8 | 12.5               | 13.8 | 13.1   | 14.3 | 15.0 |
|                              | 3H  | 16.9                | 18.0 | 17.5 | 18.6 | 19.3 | 12.9               | 14.0 | 13.5   | 14.6 | 15.3 |
|                              | 4H  | 17.1                | 18.1 | 17.7 | 18.7 | 19.4 | 13.1               | 14.2 | 13.7   | 14.8 | 15.5 |
|                              | 6H  | 17.3                | 18.2 | 18.0 | 18.9 | 19.6 | 13.3               | 14.2 | 13.9   | 14.8 | 15.6 |
|                              | 8H  | 17.6                | 18.4 | 18.3 | 19.0 | 19.8 | 13.2               | 14.1 | 13.9   | 14.8 | 15.5 |
|                              | 12H | 17.9                | 18.6 | 18.6 | 19.3 | 20.1 | 13.3               | 14.1 | 13.9   | 14.8 | 15.5 |
| 4H                           | 2H  | 16.3                | 17.4 | 16.9 | 18.0 | 18.7 | 13.0               | 14.0 | 13.6   | 14.6 | 15.3 |
|                              | 3H  | 17.0                | 17.8 | 17.6 | 18.5 | 19.3 | 13.5               | 14.4 | 14.2   | 15.0 | 15.8 |
|                              | 4H  | 17.2                | 18.0 | 17.9 | 18.7 | 19.5 | 13.8               | 14.6 | 14.5   | 15.3 | 16.1 |
|                              | 6H  | 17.7                | 18.3 | 18.4 | 19.0 | 19.9 | 14.0               | 14.7 | 14.7   | 15.4 | 16.2 |
|                              | 8H  | 18.0                | 18.6 | 18.7 | 19.3 | 20.2 | 14.1               | 14.7 | 14.8   | 15.4 | 16.3 |
|                              | 12H | 18.5                | 19.0 | 19.3 | 19.8 | 20.7 | 14.1               | 14.7 | 14.9   | 15.4 | 16.3 |
| 8H                           | 4H  | 17.2                | 17.8 | 17.9 | 18.5 | 19.4 | 14.0               | 14.6 | 14.7   | 15.3 | 16.1 |
|                              | 6H  | 17.8                | 18.3 | 18.5 | 19.0 | 19.9 | 14.4               | 14.8 | 15.1   | 15.6 | 16.5 |
|                              | 8H  | 18.3                | 18.7 | 19.0 | 19.5 | 20.3 | 14.5               | 15.0 | 15.3   | 15.7 | 16.6 |
|                              | 12H | 19.0                | 19.4 | 19.8 | 20.2 | 21.1 | 14.6               | 15.0 | 15.4   | 15.8 | 16.7 |
| 12H                          | 4H  | 17.1                | 17.7 | 17.9 | 18.4 | 19.3 | 14.0               | 14.5 | 14.8   | 15.2 | 16.1 |
|                              | 6H  | 17.7                | 18.2 | 18.5 | 18.9 | 19.8 | 14.5               | 14.9 | 15.2   | 15.6 | 16.6 |
|                              | 8H  | 18.3                | 18.7 | 19.1 | 19.4 | 20.4 | 14.7               | 15.1 | 15.5   | 15.8 | 16.8 |

| Luminance table |          | Max. for $\gamma \geq 65^\circ$ |                             |                             |                             | Photometric<br>dimensions in mm: | L = 1480<br>B = 115         | H(C0) = 36<br>H(C90) = 0 | H(C180) = 36<br>H(C270) = 0 |
|-----------------|----------|---------------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------------|-----------------------------|--------------------------|-----------------------------|
| C-<br>planes    | $\gamma$ | 0°                              | 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°              |                             |
|                 |          | Luminance in cd/m²              |                             |                             |                             |                                  |                             |                          |                             |
|                 | 45°      | 5023.8                          | 5018.4                      | 5868.8                      | 6879.2                      | 4139.9                           | 2916.3                      | 2828.9                   |                             |
|                 | 50°      | 4673.3                          | 4361.9                      | 4245.2                      | 5019.1                      | 3127.8                           | 2210.6                      | 2187.0                   |                             |
|                 | 55°      | 4427.7                          | 3957.5                      | 3270.4                      | 3492.8                      | 2407.2                           | 1793.0                      | 1833.6                   |                             |
|                 | 60°      | 3898.2                          | 3440.1                      | 2596.9                      | 2473.4                      | 1928.0                           | 1532.5                      | 1628.5                   |                             |
|                 | 65°      | 2985.1                          | 2662.3                      | 2040.1                      | 1858.2                      | 1618.1                           | 1365.9                      | 1503.6                   |                             |
|                 | 70°      | 1981.6                          | 1832.2                      | 1577.3                      | 1497.1                      | 1413.8                           | 1244.8                      | 1409.5                   |                             |
|                 | 75°      | 1599.3                          | 1496.2                      | 1325.8                      | 1297.9                      | 1285.1                           | 1132.2                      | 1298.5                   |                             |
|                 | 80°      | 1850.5                          | 1723.3                      | 1422.0                      | 1227.1                      | 1220.0                           | 1034.8                      | 1143.0                   |                             |
|                 | 85°      | 2602.2                          | 2426.8                      | 1945.7                      | 1478.4                      | 1236.9                           | 978.2                       | 973.2                    |                             |

Photometric test report

Family  
Licross® 21 Performance

Order number: 52TM16DN445G3S  
EAN: 4069025178732

LP number  
58520\_398

Luminance values in cd/m²

γ 65°

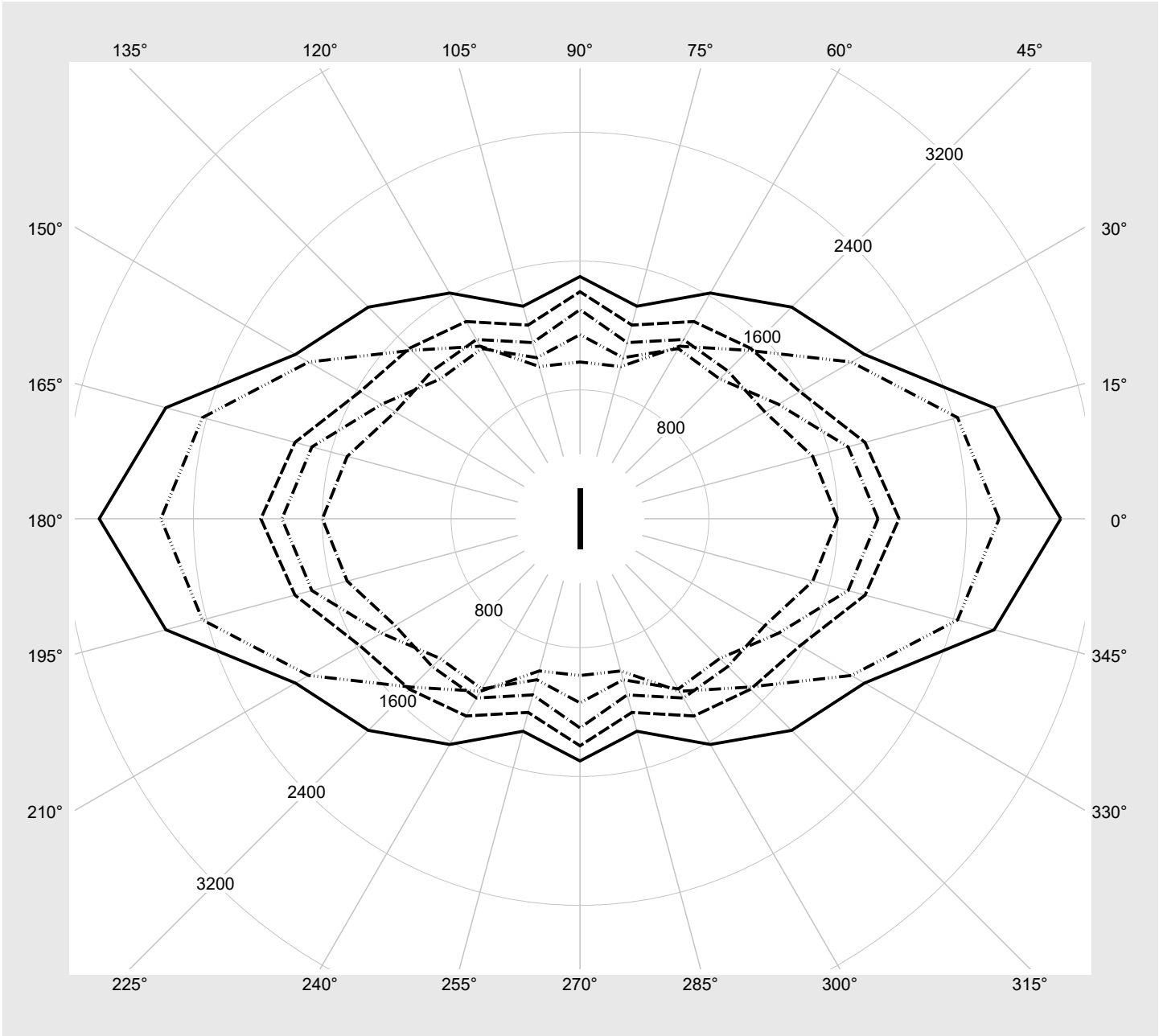
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

|                                                                        |                                                                  |                                                                                     |
|------------------------------------------------------------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Family</b><br><b>Licross® 21 Performance</b>                        | <b>Order number: 52TM16DN445G3S</b><br><b>EAN: 4069025178732</b> | <b>LP number</b><br><b>58520_398</b>                                                |
| <b>Dimming levels table</b> <div>environmental temperature: 25°C</div> |                                                                  |  |

| Luminous flux % | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-----------------|----------------------|---------------------------|--------------------|-----------------------|
| 100             | 254                  | 254                       | 4500               | 28.7                  |
| 95              | 241                  | 252                       | 4276               | 27.6                  |
| 90              | 228                  | 250                       | 4049               | 26.4                  |
| 85              | 215                  | 248                       | 3824               | 25.2                  |
| 80              | 202                  | 246                       | 3596               | 24.0                  |
| 75              | 189                  | 243                       | 3369               | 22.8                  |
| 70              | 176                  | 241                       | 3142               | 21.6                  |
| 65              | 164                  | 238                       | 2929               | 20.4                  |
| 60              | 151                  | 235                       | 2700               | 19.2                  |
| 55              | 138                  | 232                       | 2470               | 18.0                  |
| 50              | 126                  | 228                       | 2256               | 16.7                  |
| 45              | 113                  | 224                       | 2024               | 15.5                  |
| 40              | 100                  | 220                       | 1793               | 14.3                  |
| 35              | 88                   | 215                       | 1577               | 13.2                  |
| 30              | 75                   | 209                       | 1344               | 12.0                  |
| 25              | 63                   | 203                       | 1128               | 10.9                  |
| 20              | 50                   | 194                       | 892                | 9.6                   |
| 18              | 46                   | 191                       | 819                | 9.2                   |