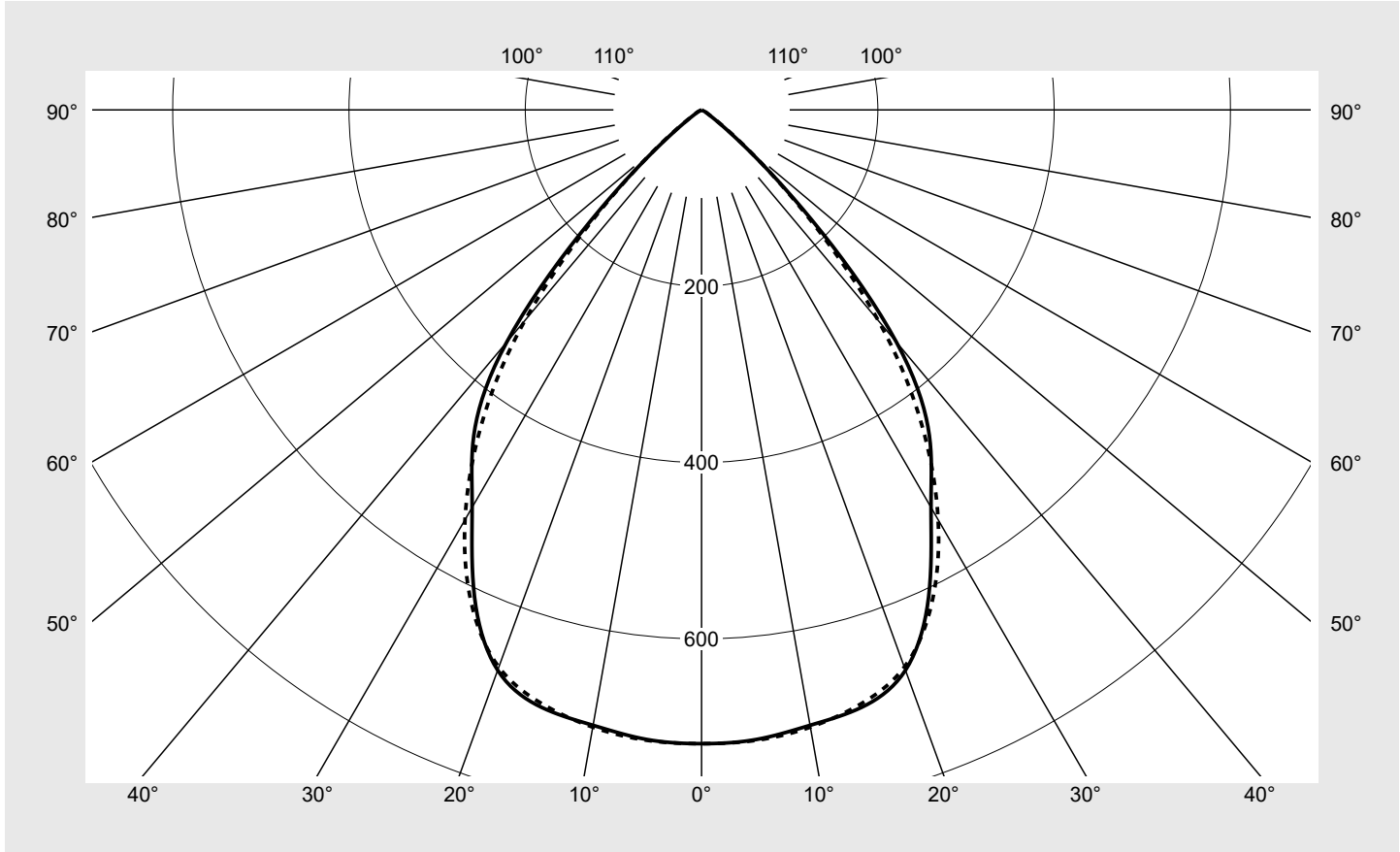


# Photometric test report

|  |  |   |
|--|--|---|
| <b>Family</b><br><b>Silica® 21</b>   | <b>Order number: 51MX22DA34WB</b><br><b>EAN: 4058352896112</b>   | <b>LP number</b><br><b>59266_149</b>  |
|  | <b>Version</b> surface-mounted luminaire, reflector, black, direct distribution, wide distribution, UGR≤19 (L65≤1000cd/m²)   | <b>serial documentation</b><br><b>02.08.2023</b>                                    |
|  | <b>Lamps</b> LED 3000 K   CRI ≥ 80<br><b>Controlgear</b> ECG-DALI<br><b>Rated values</b> Net luminous flux = 4320 lm<br>Power consumption = 27.4 W<br>Luminous efficacy = 157.7 lm/W |  |

**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 719 cd/klm**



| Classifications |                                      |
|-----------------|--------------------------------------|
| DIN 5040        | A 6 0                                |
| CIE             | N1=86 N2=100 N3=100<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 |

## Photometric test report

|  |  |                               |
|--|--|-------------------------------|
| Family<br><b>Silica® 21</b>              | Order number: <b>51MX22DA34WB</b><br>EAN: <b>4058352896112</b> | LP number<br><b>59266_149</b> |
| Table of values for luminous intensities |  | Maximum luminous intensity    |
|  |  | <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°                           | 718.8      | 718.8                | 718.8                | 718.8                | 718.8                | 718.8                | 718.8       | 4.3                     | 4.3               |
| 5°                           | 716.8      | 715.7                | 712.2                | 716.2                | 717.8                | 715.2                | 717.7       | 34.2                    | 38.5              |
| 10°                          | 708.8      | 709.0                | 703.3                | 708.6                | 709.9                | 707.6                | 710.9       | 67.4                    | 105.9             |
| 15°                          | 701.5      | 704.3                | 697.3                | 698.3                | 698.8                | 696.7                | 697.6       | 99.2                    | 205.1             |
| 20°                          | 676.3      | 682.5                | 681.1                | 681.0                | 677.6                | 673.2                | 672.5       | 127.2                   | 332.2             |
| 25°                          | 609.5      | 618.9                | 627.5                | 636.4                | 634.5                | 625.9                | 617.8       | 145.0                   | 477.3             |
| 30°                          | 520.6      | 528.9                | 533.1                | 542.9                | 550.7                | 541.7                | 536.8       | 147.4                   | 624.6             |
| 35°                          | 450.5      | 455.7                | 444.2                | 436.3                | 445.0                | 443.0                | 435.2       | 139.8                   | 764.4             |
| 40°                          | 343.9      | 350.9                | 343.2                | 332.9                | 329.4                | 321.5                | 312.0       | 117.8                   | 882.2             |
| 45°                          | 178.2      | 185.2                | 190.8                | 192.2                | 186.9                | 176.3                | 167.1       | 71.3                    | 953.5             |
| 50°                          | 59.7       | 64.4                 | 73.8                 | 78.7                 | 75.2                 | 68.1                 | 63.7        | 29.5                    | 983.0             |
| 55°                          | 15.6       | 18.5                 | 24.7                 | 31.2                 | 26.2                 | 20.2                 | 17.4        | 10.3                    | 993.3             |
| 60°                          | 6.1        | 6.8                  | 9.1                  | 12.2                 | 9.8                  | 7.7                  | 7.0         | 4.1                     | 997.4             |
| 65°                          | 2.1        | 2.4                  | 3.4                  | 4.3                  | 3.8                  | 3.0                  | 2.8         | 1.6                     | 999.0             |
| 70°                          | 1.4        | 1.4                  | 1.0                  | 1.0                  | 1.2                  | 1.5                  | 1.5         | 0.7                     | 999.7             |
| 75°                          | 0.3        | 0.4                  | 0.3                  | 0.4                  | 0.4                  | 0.5                  | 0.4         | 0.2                     | 999.9             |
| 80°                          | 0.0        | 0.0                  | 0.1                  | 0.1                  | 0.1                  | 0.2                  | 0.2         | 0.1                     | 999.9             |
| 85°                          | 0.0        | 0.0                  | 0.1                  | 0.1                  | 0.1                  | 0.2                  | 0.2         | 0.1                     | 1000.0            |
| 90°                          | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 95°                          | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 100°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 105°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 110°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 115°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 120°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 1000.0            |
| 125°                         | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 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            |

## Photometric test report

|                             |  |                               |
|-----------------------------|--|-------------------------------|
| Family<br><b>Silica® 21</b> | Order number: <b>51MX22DA34WB</b><br>EAN: <b>4058352896112</b> | LP number<br><b>59266_149</b> |
|-----------------------------|--|-------------------------------|

|                  |                      |               |
|------------------|----------------------|---------------|
| <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                  | 19.0 | 20.3 | 19.4 | 20.6 | 21.0               | 18.9 | 20.2 | 19.2 | 20.5 | 20.8 |
|                              | 3H                  | 18.9 | 20.0 | 19.3 | 20.4 | 20.7               | 18.7 | 19.9 | 19.1 | 20.2 | 20.6 |
|                              | 4H                  | 18.8 | 19.9 | 19.2 | 20.2 | 20.6               | 18.7 | 19.7 | 19.1 | 20.1 | 20.4 |
|                              | 6H                  | 18.8 | 19.7 | 19.2 | 20.1 | 20.5               | 18.6 | 19.5 | 19.0 | 19.9 | 20.3 |
|                              | 8H                  | 18.8 | 19.6 | 19.2 | 20.0 | 20.4               | 18.6 | 19.4 | 19.1 | 19.8 | 20.2 |
|                              | 12H                 | 18.8 | 19.5 | 19.2 | 19.9 | 20.3               | 18.6 | 19.4 | 19.0 | 19.7 | 20.2 |
| 4H                           | 2H                  | 18.9 | 19.9 | 19.3 | 20.2 | 20.6               | 18.7 | 19.7 | 19.1 | 20.1 | 20.4 |
|                              | 3H                  | 18.7 | 19.5 | 19.1 | 19.9 | 20.4               | 18.5 | 19.4 | 19.0 | 19.8 | 20.2 |
|                              | 4H                  | 18.6 | 19.4 | 19.1 | 19.8 | 20.2               | 18.4 | 19.2 | 18.9 | 19.6 | 20.0 |
|                              | 6H                  | 18.5 | 19.2 | 19.0 | 19.6 | 20.1               | 18.4 | 19.0 | 18.8 | 19.4 | 19.9 |
|                              | 8H                  | 18.5 | 19.1 | 19.0 | 19.5 | 20.0               | 18.3 | 18.9 | 18.8 | 19.3 | 19.8 |
|                              | 12H                 | 18.5 | 19.0 | 19.0 | 19.4 | 19.9               | 18.3 | 18.8 | 18.8 | 19.2 | 19.7 |
| 8H                           | 4H                  | 18.5 | 19.1 | 19.0 | 19.5 | 20.0               | 18.3 | 18.9 | 18.8 | 19.3 | 19.8 |
|                              | 6H                  | 18.4 | 18.8 | 18.9 | 19.3 | 19.8               | 18.2 | 18.7 | 18.7 | 19.2 | 19.7 |
|                              | 8H                  | 18.3 | 18.7 | 18.8 | 19.2 | 19.8               | 18.2 | 18.6 | 18.7 | 19.1 | 19.6 |
|                              | 12H                 | 18.3 | 18.6 | 18.8 | 19.1 | 19.7               | 18.1 | 18.5 | 18.7 | 19.0 | 19.5 |
| 12H                          | 4H                  | 18.5 | 19.0 | 19.0 | 19.4 | 19.9               | 18.3 | 18.8 | 18.8 | 19.2 | 19.7 |
|                              | 6H                  | 18.4 | 18.7 | 18.9 | 19.2 | 19.8               | 18.2 | 18.6 | 18.7 | 19.1 | 19.6 |
|                              | 8H                  | 18.3 | 18.6 | 18.8 | 19.1 | 19.7               | 18.1 | 18.5 | 18.7 | 19.0 | 19.5 |

|                        |   |                                      |                                  |
|------------------------|---|--------------------------------------|----------------------------------|
| <b>Luminance table</b> | <b>Max. for <math>\gamma \geq 65^\circ</math></b> | <b>Photometric dimensions in mm:</b> | <b>L = 1176</b><br><b>B = 49</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°      | 18893.8                        | 19639.4                     | 20224.8                     | 20378.7                     | 19816.4                     | 18686.5                     | 17719.1     |  |
|          | 50°      | 6967.4                         | 7515.8                      | 8602.9                      | 9174.9                      | 8765.7                      | 7944.9                      | 7434.7      |  |
|          | 55°      | 2040.2                         | 2416.2                      | 3223.4                      | 4082.0                      | 3422.4                      | 2643.9                      | 2274.9      |  |
|          | 60°      | 914.5                          | 1022.3                      | 1370.7                      | 1828.8                      | 1475.1                      | 1154.2                      | 1044.6      |  |
|          | 65°      | 373.2                          | 429.1                       | 595.7                       | 753.9                       | 671.6                       | 529.3                       | 489.2       |  |
|          | 70°      | 297.0                          | 310.2                       | 229.3                       | 215.0                       | 259.3                       | 333.6                       | 336.2       |  |
|          | 75°      | 82.6                           | 110.1                       | 89.5                        | 125.7                       | 115.3                       | 137.9                       | 120.5       |  |
|          | 80°      | 20.7                           | 20.7                        | 30.7                        | 46.2                        | 61.7                        | 71.7                        | 82.0        |  |
|          | 85°      | 20.6                           | 36.1                        | 45.6                        | 81.7                        | 117.8                       | 142.8                       | 153.1       |  |

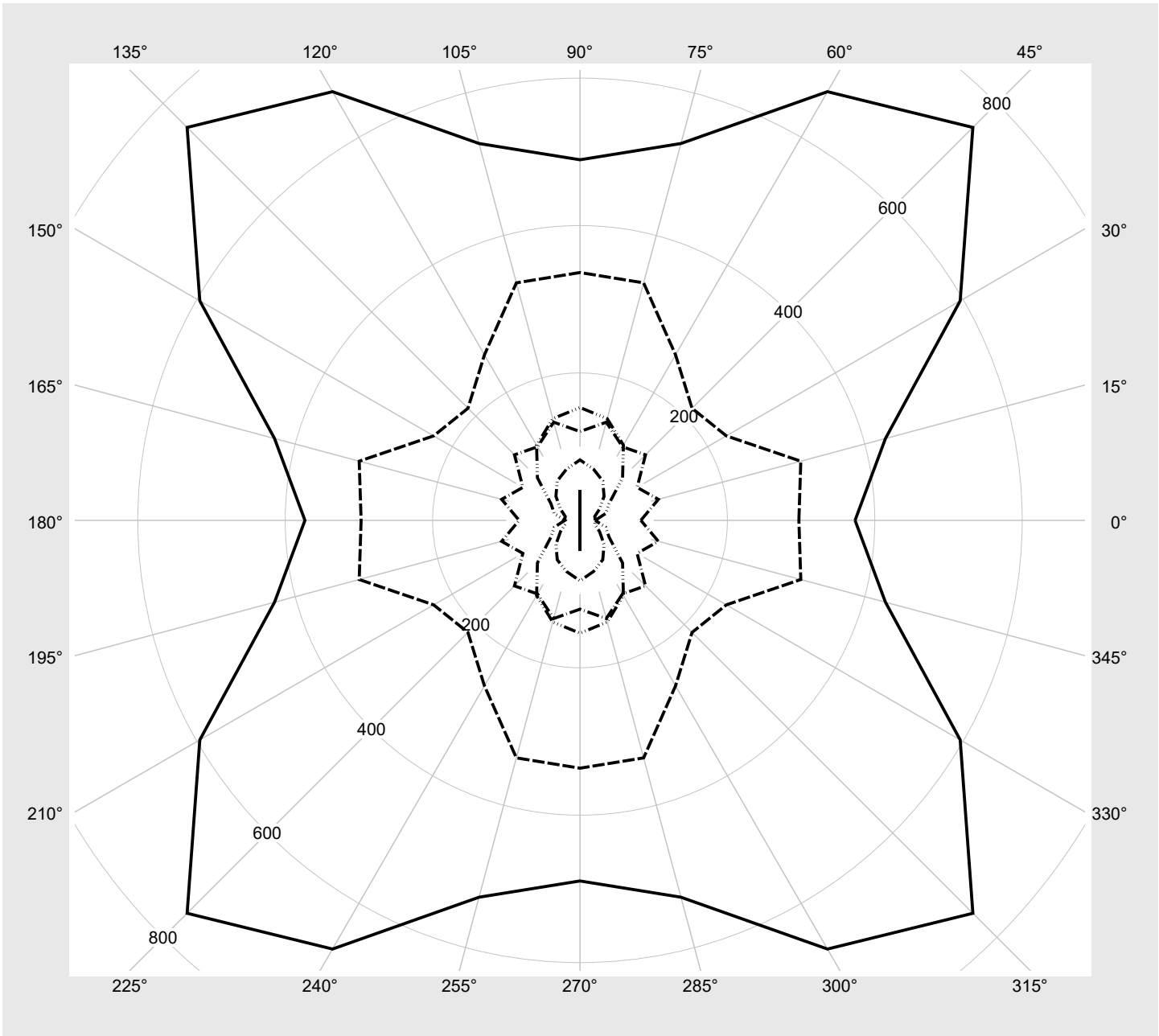
**Photometric test report**

|                                    |  |                                      |
|------------------------------------|--|--------------------------------------|
| <b>Family</b><br><b>Silica® 21</b> | <b>Order number: 51MX22DA34WB</b><br><b>EAN: 4058352896112</b> | <b>LP number</b><br><b>59266_149</b> |
|------------------------------------|--|--------------------------------------|

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

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

**siteco**



## Photometric test report

|                             |  |                               |
|-----------------------------|--|-------------------------------|
| Family<br><b>Silica® 21</b> | Order number: <b>51MX22DA34WB</b><br>EAN: <b>4058352896112</b> | LP number<br><b>59266_149</b> |
|-----------------------------|--|-------------------------------|

|                             |                                 |               |
|-----------------------------|---------------------------------|---------------|
| <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                       | 4320               | 27.4                  |
| 95              | 240                  | 252                       | 4098               | 25.9                  |
| 90              | 227                  | 250                       | 3889               | 24.5                  |
| 85              | 214                  | 248                       | 3678               | 23.0                  |
| 80              | 200                  | 245                       | 3449               | 21.5                  |
| 75              | 187                  | 243                       | 3236               | 20.1                  |
| 70              | 174                  | 240                       | 3021               | 18.7                  |
| 65              | 161                  | 237                       | 2805               | 17.2                  |
| 60              | 148                  | 234                       | 2585               | 15.9                  |
| 55              | 136                  | 231                       | 2382               | 14.6                  |
| 50              | 123                  | 227                       | 2160               | 13.3                  |
| 45              | 110                  | 223                       | 1937               | 11.9                  |
| 40              | 98                   | 219                       | 1730               | 10.6                  |
| 35              | 86                   | 214                       | 1521               | 9.4                   |
| 30              | 73                   | 208                       | 1293               | 8.1                   |
| 25              | 61                   | 202                       | 1083               | 6.9                   |
| 20              | 49                   | 194                       | 870                | 5.8                   |
| 15              | 37                   | 183                       | 655                | 4.5                   |
| 10              | 24                   | 168                       | 423                | 3.3                   |
| 5               | 12                   | 142                       | 207                | 1.9                   |
| 3               | 8                    | 127                       | 135                | 1.3                   |