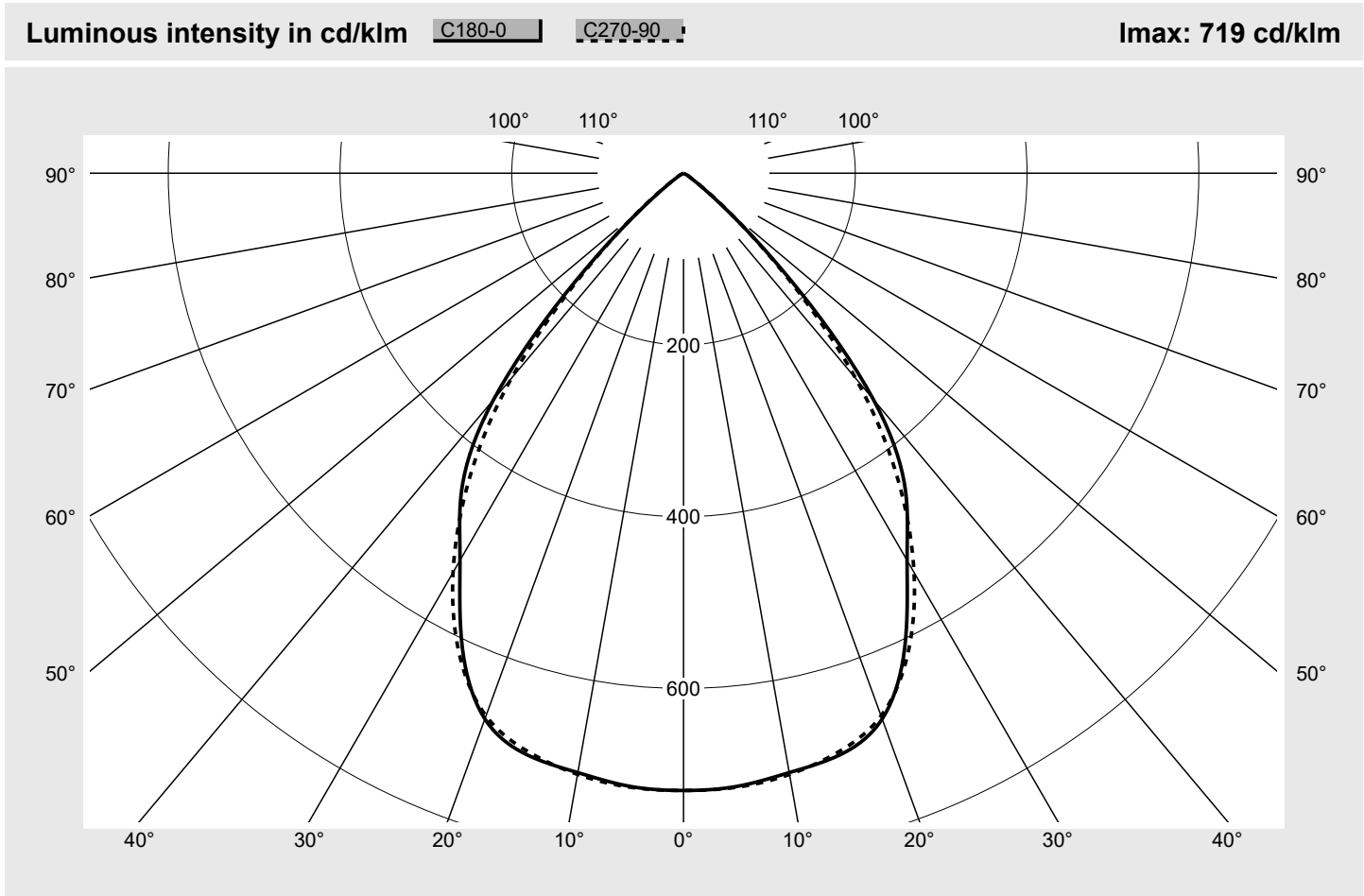


Photometric test report

|                                    |                                                                |                                                                                                      |
|------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Family</b><br><b>Silica® 21</b> | <b>Order number: 51MX12DA44WB</b><br><b>EAN: 4058352885413</b> | <b>LP number</b><br><b>59266_319</b>                                                                 |
|                                    | <b>Version</b>                                                 | recessed luminaire, reflector, black, direct distribution, wide distribution, UGR≤19 (L65≤1000cd/m²) |
|                                    | <b>Lamps</b>                                                   | LED 4000 K   CRI ≥ 80                                                                                |
|                                    | <b>Controlgear</b>                                             | ECG-DALI                                                                                             |
|                                    | <b>Rated values</b>                                            | Net luminous flux = 4320 lm<br>Power consumption = 25.6 W<br>Luminous efficacy = 168.7 lm/W          |
|                                    |                                                                | <b>serial documentation</b><br>17.12.2024                                                            |
|                                    |                                                                | <b>siteco</b>                                                                                        |



| Classifications |                     | Luminaire light output ratios |        |
|-----------------|---------------------|-------------------------------|--------|
| DIN 5040        | A 6 0               | $\eta_{LB}$                   | 100.0% |
| CIE             | N1=86 N2=100 N3=100 | $\phi_u$                      | 100.0% |
|                 | N4=100 N5=100       | $\phi_o$                      | 0.0%   |

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

Photometric test report

|                                          |                                                  |                            |
|------------------------------------------|--------------------------------------------------|----------------------------|
| Family<br>Silica® 21                     | Order number: 51MX12DA44WB<br>EAN: 4058352885413 | LP number<br>59266_319     |
| 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°           | 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>Silica® 21 | Order number: 51MX12DA44WB<br>EAN: 4058352885413 | LP number<br>59266_319 |
|----------------------|--------------------------------------------------|------------------------|

| 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  | 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 |

| Luminance table |          | Max. for $\gamma \geq 65^\circ$ |                             |                             |                             |                             | Photometric dimensions in mm: |             | L = 1176<br>B = 49 |  |
|-----------------|----------|---------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------------------------|-------------|--------------------|--|
| C-planes        | $\gamma$ | 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° |                    |  |
|                 |          | Luminance in cd/m²              |                             |                             |                             |                             |                               |             |                    |  |
| 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

Family  
Silica® 21

Order number: 51MX12DA44WB  
EAN: 4058352885413

LP number  
59266\_319

Luminance values in cd/m²

γ 65°

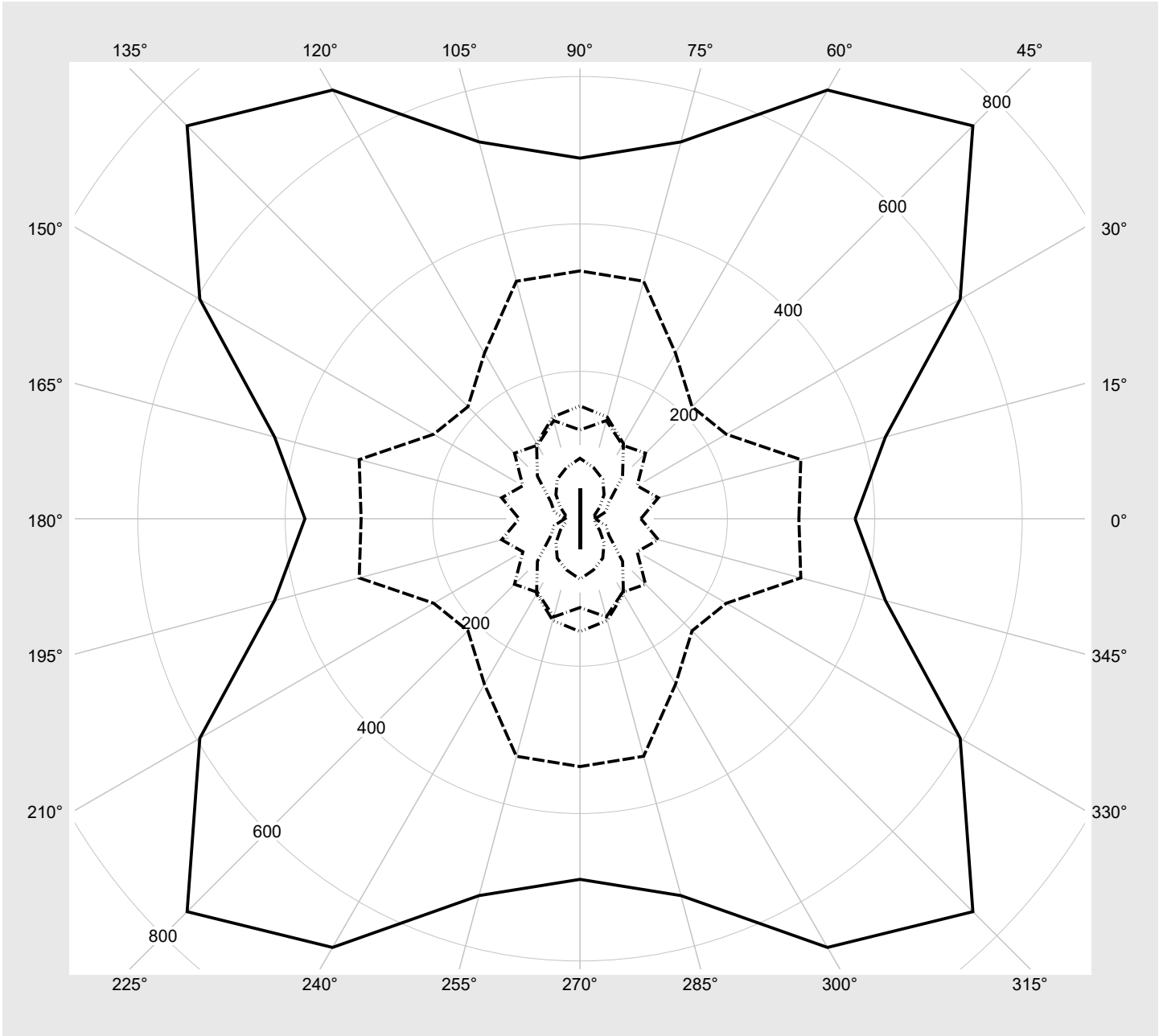
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

|                      |                                                  |                                 |
|----------------------|--------------------------------------------------|---------------------------------|
| Family<br>Silica® 21 | Order number: 51MX12DA44WB<br>EAN: 4058352885413 | LP number<br>59266_319          |
| Dimming levels table |                                                  | environmental temperature: 25°C |
|                      |                                                  | siteco                          |

| Luminous flux<br>% | Dimming level<br>linear | Dimming level<br>logarithmic | Luminous flux<br>[lm] | Power consumption<br>[W] |
|--------------------|-------------------------|------------------------------|-----------------------|--------------------------|
| 100                | 254                     | 254                          | 4320                  | 25.6                     |
| 95                 | 240                     | 252                          | 4096                  | 24.2                     |
| 90                 | 227                     | 250                          | 3884                  | 22.8                     |
| 85                 | 214                     | 248                          | 3673                  | 21.5                     |
| 80                 | 201                     | 245                          | 3460                  | 20.2                     |
| 75                 | 188                     | 243                          | 3246                  | 18.9                     |
| 70                 | 175                     | 240                          | 3031                  | 17.5                     |
| 65                 | 162                     | 238                          | 2813                  | 16.2                     |
| 60                 | 149                     | 234                          | 2594                  | 15.0                     |
| 55                 | 136                     | 231                          | 2373                  | 13.7                     |
| 50                 | 124                     | 228                          | 2168                  | 12.5                     |
| 45                 | 111                     | 224                          | 1945                  | 11.2                     |
| 40                 | 98                      | 219                          | 1721                  | 10.0                     |
| 35                 | 86                      | 214                          | 1513                  | 8.8                      |
| 30                 | 74                      | 209                          | 1303                  | 7.7                      |
| 25                 | 61                      | 202                          | 1076                  | 6.5                      |
| 20                 | 49                      | 194                          | 865                   | 5.4                      |
| 15                 | 37                      | 183                          | 651                   | 4.3                      |
| 10                 | 25                      | 169                          | 437                   | 3.2                      |
| 5                  | 13                      | 145                          | 224                   | 1.9                      |
| 3                  | 8                       | 127                          | 134                   | 1.2                      |