
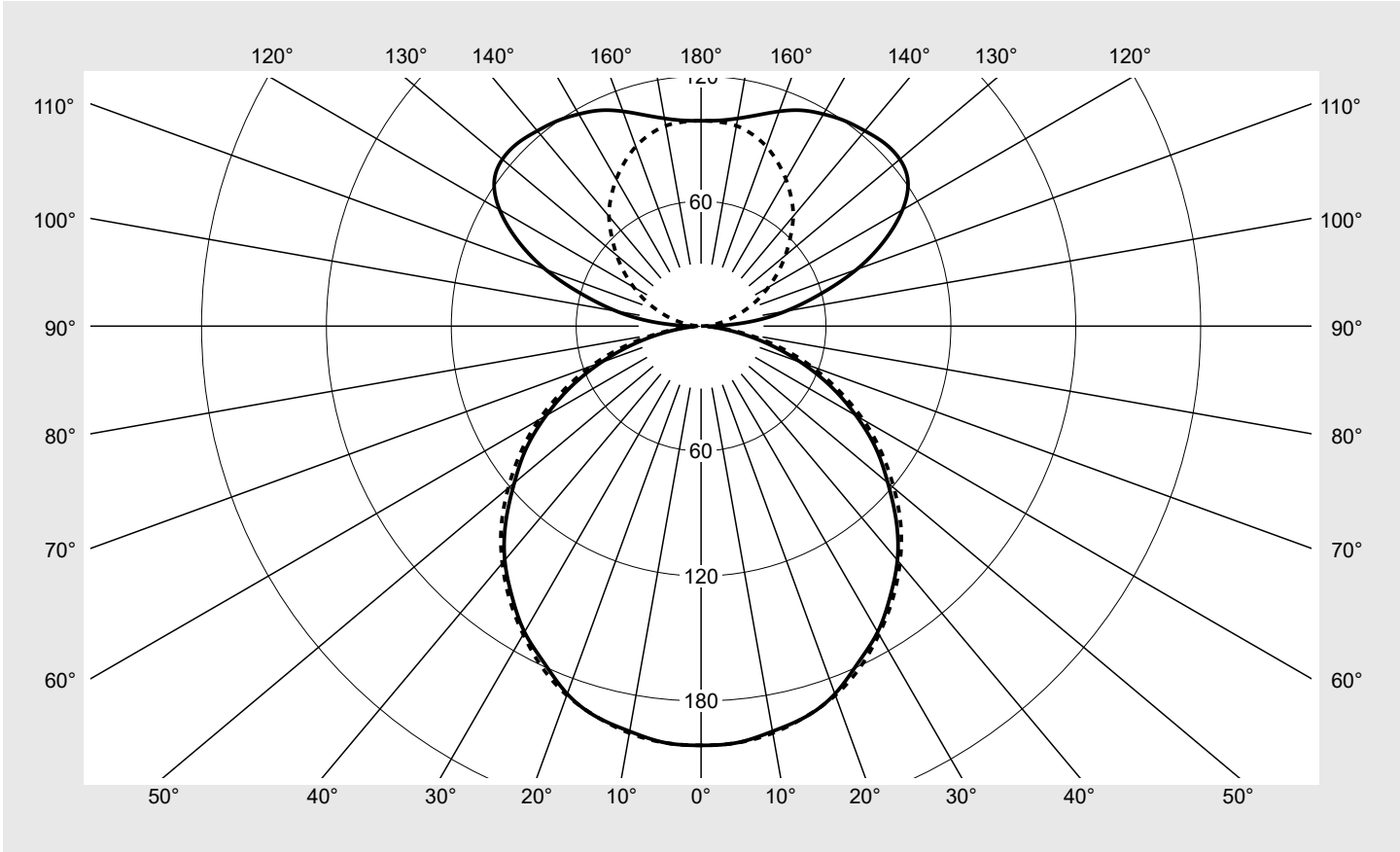


**Photometric test report**

|  |   |   |
|--|---|---|
| <p><b>Family</b><br/><b>Silica® 21</b></p>                                       | <p><b>Order number: 51MX30DC49WB</b><br/><b>EAN: 4058352892770</b></p>  | <p><b>LP number</b><br/><b>59413_58</b></p>                                   |
|  | <p><b>Version</b>                      Suspended luminaire, with homogeneous illumination, cover, opal, direct-/ indirect distribution, extremely wide distribution, UGR≤25</p> <p><b>Lamps</b>                              LED 4000 K   CRI ≥ 80</p> <p><b>Controlgear</b>                      ECG-DALI</p> <p><b>Rated values</b>                      Net luminous flux = 10520 lm<br/>Power consumption = 64.1 W<br/>Luminous efficacy = 164.1 lm/W</p> | <p><b>serial documentation</b><br/><b>02.08.2023</b></p> <p><b>siteco</b></p> |

**Luminous intensity in cd/klm**    C180-0    C270-90    **Imax: 201 cd/klm**



**Classifications**

|          |                                   |
|----------|-----------------------------------|
| DIN 5040 | C 4 2                             |
| CIE      | N1=47 N2=79 N3=96<br>N4=57 N5=100 |

**Luminaire light output ratios**

|             |        |
|-------------|--------|
| $\eta_{LB}$ | 100.0% |
| $\phi_u$    | 57.0%  |
| $\phi_o$    | 43.0%  |

**Measurement conditions**

DIN EN 13032 and DIN 5032

## Photometric test report

|  |  |                              |
|--|--|------------------------------|
| Family<br><b>Silica® 21</b>              | Order number: <b>51MX30DC49WB</b><br>EAN: <b>4058352892770</b> | LP number<br><b>59413_58</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°                           | 201.3      | 201.3                | 201.3                | 201.3                | 201.3                | 201.3                | 201.3                   | 1.2      | 1.2               |
| 5°                           | 200.8      | 201.1                | 200.5                | 200.6                | 200.7                | 201.0                | 200.8                   | 9.6      | 10.8              |
| 10°                          | 197.6      | 197.2                | 197.1                | 197.6                | 198.5                | 197.9                | 198.4                   | 18.8     | 29.6              |
| 15°                          | 194.2      | 193.6                | 192.5                | 193.4                | 194.0                | 194.3                | 194.2                   | 27.5     | 57.1              |
| 20°                          | 188.0      | 187.6                | 186.2                | 187.1                | 187.3                | 187.7                | 188.7                   | 35.1     | 92.2              |
| 25°                          | 178.4      | 178.6                | 177.9                | 178.8                | 179.9                | 179.8                | 180.8                   | 41.5     | 133.7             |
| 30°                          | 169.6      | 169.4                | 168.2                | 169.6                | 170.9                | 170.8                | 170.9                   | 46.6     | 180.3             |
| 35°                          | 158.4      | 158.6                | 157.6                | 158.2                | 158.8                | 159.6                | 160.3                   | 49.9     | 230.1             |
| 40°                          | 146.7      | 146.4                | 146.5                | 146.2                | 147.1                | 147.3                | 148.6                   | 51.7     | 281.9             |
| 45°                          | 132.6      | 132.7                | 133.0                | 133.0                | 133.6                | 133.9                | 135.7                   | 51.7     | 333.6             |
| 50°                          | 117.1      | 118.0                | 118.4                | 118.9                | 120.0                | 120.2                | 120.9                   | 50.0     | 383.6             |
| 55°                          | 102.6      | 102.7                | 103.4                | 103.9                | 104.8                | 104.8                | 105.8                   | 46.7     | 430.3             |
| 60°                          | 86.0       | 86.4                 | 86.9                 | 87.2                 | 88.6                 | 88.7                 | 90.0                    | 41.6     | 471.9             |
| 65°                          | 69.1       | 69.7                 | 70.6                 | 71.5                 | 72.2                 | 72.9                 | 72.9                    | 35.4     | 507.3             |
| 70°                          | 51.3       | 52.3                 | 52.8                 | 54.1                 | 55.2                 | 55.9                 | 56.2                    | 27.8     | 535.1             |
| 75°                          | 33.8       | 34.6                 | 35.2                 | 36.4                 | 37.6                 | 38.6                 | 38.9                    | 19.3     | 554.4             |
| 80°                          | 17.8       | 18.1                 | 18.7                 | 19.5                 | 20.7                 | 21.6                 | 21.9                    | 10.7     | 565.1             |
| 85°                          | 5.8        | 6.0                  | 6.3                  | 6.7                  | 7.3                  | 8.0                  | 8.2                     | 3.8      | 568.8             |
| 90°                          | 5.3        | 5.2                  | 5.5                  | 5.5                  | 3.6                  | 1.7                  | 1.1                     | 2.3      | 571.1             |
| 95°                          | 23.1       | 23.6                 | 25.3                 | 23.9                 | 15.3                 | 7.9                  | 4.1                     | 10.0     | 581.1             |
| 100°                         | 41.3       | 42.4                 | 42.7                 | 37.4                 | 25.1                 | 14.2                 | 9.3                     | 16.8     | 597.9             |
| 105°                         | 59.2       | 60.4                 | 59.2                 | 50.6                 | 34.6                 | 21.4                 | 15.7                    | 23.3     | 621.2             |
| 110°                         | 79.5       | 79.8                 | 74.8                 | 62.3                 | 44.4                 | 29.0                 | 22.5                    | 29.3     | 650.4             |
| 115°                         | 97.2       | 96.3                 | 88.8                 | 73.1                 | 53.8                 | 36.6                 | 30.0                    | 34.1     | 684.6             |
| 120°                         | 111.8      | 110.0                | 100.3                | 81.8                 | 62.6                 | 44.0                 | 37.3                    | 37.4     | 722.0             |
| 125°                         | 121.3      | 118.0                | 107.2                | 89.8                 | 70.0                 | 51.0                 | 45.1                    | 38.9     | 760.9             |
| 130°                         | 124.6      | 121.9                | 110.5                | 94.5                 | 75.7                 | 58.3                 | 52.9                    | 38.5     | 799.3             |
| 135°                         | 124.4      | 121.9                | 111.7                | 97.7                 | 80.2                 | 65.0                 | 60.7                    | 36.8     | 836.1             |
| 140°                         | 122.4      | 120.5                | 112.1                | 100.0                | 84.0                 | 71.4                 | 68.8                    | 34.3     | 870.4             |
| 145°                         | 120.4      | 119.1                | 112.0                | 101.3                | 87.5                 | 77.3                 | 75.5                    | 31.2     | 901.5             |
| 150°                         | 117.6      | 117.1                | 110.8                | 101.2                | 90.4                 | 83.0                 | 81.5                    | 27.5     | 929.0             |
| 155°                         | 114.3      | 114.0                | 108.0                | 100.7                | 92.6                 | 88.1                 | 86.9                    | 23.3     | 952.4             |
| 160°                         | 109.8      | 109.5                | 104.7                | 99.9                 | 94.6                 | 92.0                 | 91.8                    | 18.8     | 971.2             |
| 165°                         | 104.9      | 104.4                | 101.9                | 98.7                 | 96.5                 | 95.2                 | 95.3                    | 14.1     | 985.3             |
| 170°                         | 101.3      | 100.8                | 100.1                | 98.8                 | 97.8                 | 97.7                 | 97.7                    | 9.4      | 994.7             |
| 175°                         | 99.2       | 99.0                 | 98.5                 | 98.3                 | 98.4                 | 98.4                 | 98.4                    | 4.7      | 999.4             |
| 180°                         | 98.6       | 98.6                 | 98.6                 | 98.6                 | 98.6                 | 98.6                 | 98.6                    | 0.6      | 1000.0            |

## Photometric test report

|                             |  |                              |
|-----------------------------|--|------------------------------|
| Family<br><b>Silica® 21</b> | Order number: <b>51MX30DC49WB</b><br>EAN: <b>4058352892770</b> | LP number<br><b>59413_58</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                  | 18.5 | 19.5 | 19.3 | 20.4 | 21.5               | 18.7 | 19.7 | 19.5 | 20.5 | 21.6 |
|                              | 3H                  | 19.9 | 20.8 | 20.7 | 21.7 | 22.8               | 20.2 | 21.1 | 21.0 | 22.0 | 23.1 |
|                              | 4H                  | 20.4 | 21.2 | 21.2 | 22.1 | 23.2               | 20.8 | 21.6 | 21.6 | 22.5 | 23.6 |
|                              | 6H                  | 20.6 | 21.4 | 21.5 | 22.3 | 23.4               | 21.1 | 21.9 | 22.0 | 22.8 | 24.0 |
|                              | 8H                  | 20.6 | 21.3 | 21.5 | 22.3 | 23.4               | 21.1 | 21.8 | 22.0 | 22.8 | 23.9 |
|                              | 12H                 | 20.6 | 21.2 | 21.5 | 22.2 | 23.4               | 21.2 | 21.8 | 22.1 | 22.8 | 24.0 |
| 4H                           | 2H                  | 19.1 | 20.0 | 20.0 | 20.8 | 22.0               | 19.2 | 20.0 | 20.0 | 20.9 | 22.0 |
|                              | 3H                  | 20.7 | 21.4 | 21.6 | 22.3 | 23.5               | 20.9 | 21.6 | 21.8 | 22.5 | 23.7 |
|                              | 4H                  | 21.2 | 21.9 | 22.2 | 22.8 | 24.0               | 21.6 | 22.2 | 22.5 | 23.2 | 24.3 |
|                              | 6H                  | 21.6 | 22.1 | 22.5 | 23.1 | 24.3               | 22.0 | 22.6 | 23.0 | 23.5 | 24.7 |
|                              | 8H                  | 21.6 | 22.1 | 22.6 | 23.1 | 24.3               | 22.1 | 22.7 | 23.1 | 23.6 | 24.8 |
|                              | 12H                 | 21.6 | 22.0 | 22.6 | 23.0 | 24.3               | 22.2 | 22.6 | 23.1 | 23.6 | 24.8 |
| 8H                           | 4H                  | 21.4 | 21.9 | 22.4 | 22.9 | 24.1               | 21.7 | 22.2 | 22.6 | 23.2 | 24.4 |
|                              | 6H                  | 21.9 | 22.3 | 22.8 | 23.3 | 24.5               | 22.3 | 22.7 | 23.2 | 23.6 | 24.9 |
|                              | 8H                  | 22.0 | 22.3 | 23.0 | 23.3 | 24.6               | 22.5 | 22.8 | 23.5 | 23.8 | 25.1 |
|                              | 12H                 | 22.0 | 22.3 | 23.0 | 23.3 | 24.6               | 22.6 | 22.9 | 23.6 | 23.9 | 25.1 |
| 12H                          | 4H                  | 21.4 | 21.8 | 22.3 | 22.8 | 24.0               | 21.6 | 22.1 | 22.6 | 23.0 | 24.3 |
|                              | 6H                  | 21.9 | 22.2 | 22.8 | 23.2 | 24.5               | 22.3 | 22.6 | 23.2 | 23.6 | 24.9 |
|                              | 8H                  | 22.0 | 22.3 | 23.0 | 23.3 | 24.6               | 22.5 | 22.8 | 23.5 | 23.8 | 25.1 |

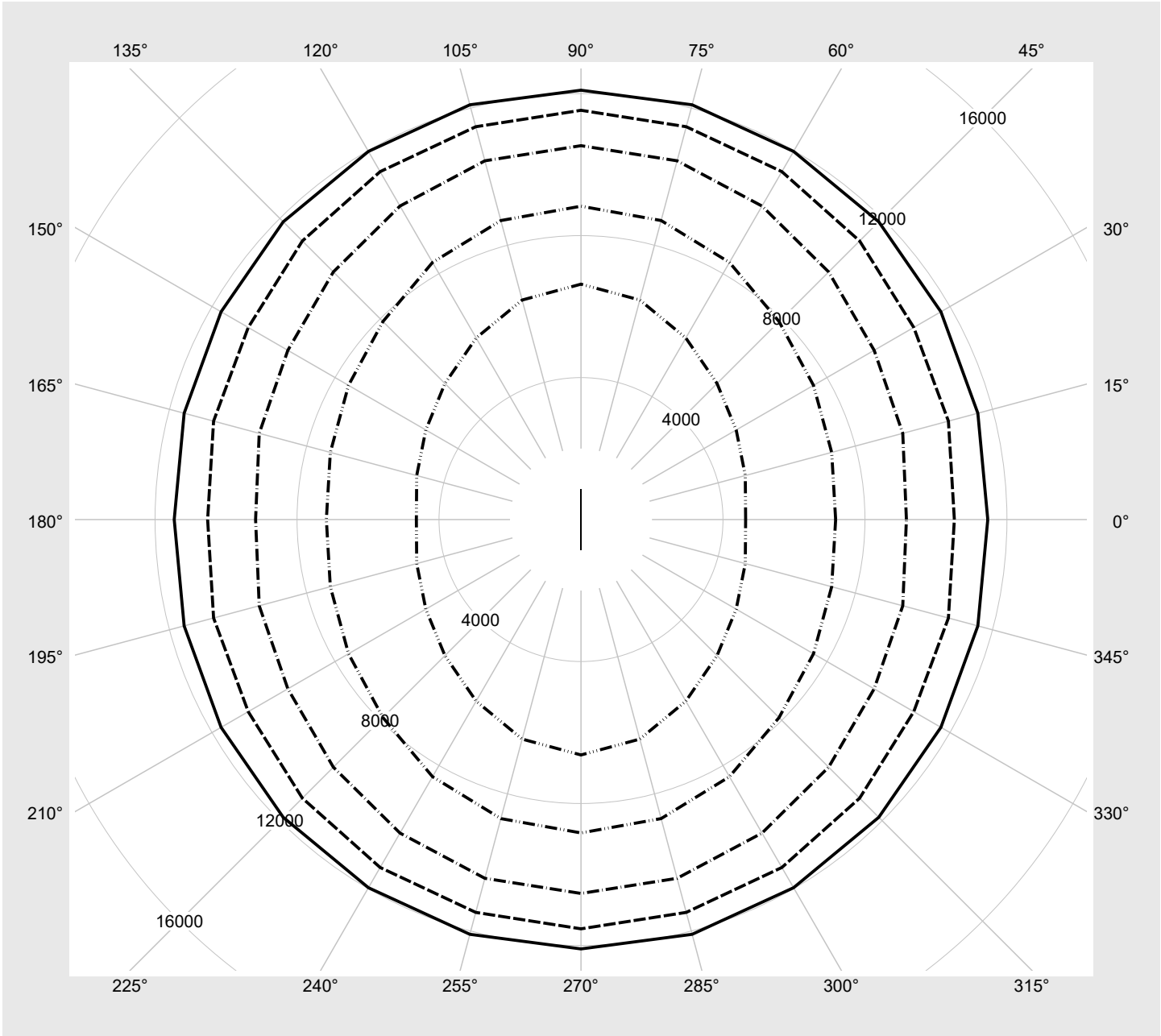
|                        |   |                                      |                                  |
|------------------------|---|--------------------------------------|----------------------------------|
| <b>Luminance table</b> | <b>Max. for <math>\gamma \geq 65^\circ</math></b> | <b>Photometric dimensions in mm:</b> | <b>L = 3000</b><br><b>B = 50</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°      |          | 13156.1                        | 13164.1                     | 13188.9                     | 13190.6                     | 13249.1                     | 13284.1                     | 13460.3     |  |
| 50°      |          | 12780.6                        | 12877.8                     | 12914.4                     | 12969.0                     | 13089.2                     | 13112.0                     | 13193.9     |  |
| 55°      |          | 12549.0                        | 12562.9                     | 12638.5                     | 12701.4                     | 12818.4                     | 12819.4                     | 12936.6     |  |
| 60°      |          | 12066.4                        | 12114.6                     | 12184.8                     | 12232.9                     | 12427.8                     | 12444.3                     | 12617.4     |  |
| 65°      |          | 11460.1                        | 11574.8                     | 11708.2                     | 11863.9                     | 11977.2                     | 12097.6                     | 12096.9     |  |
| 70°      |          | 10518.8                        | 10716.2                     | 10825.3                     | 11101.1                     | 11318.7                     | 11458.1                     | 11530.9     |  |
| 75°      |          | 9167.9                         | 9384.9                      | 9536.9                      | 9866.7                      | 10199.5                     | 10464.2                     | 10534.1     |  |
| 80°      |          | 7174.2                         | 7311.5                      | 7563.1                      | 7890.6                      | 8365.6                      | 8722.2                      | 8828.9      |  |
| 85°      |          | 4638.2                         | 4791.9                      | 5048.6                      | 5421.2                      | 5907.2                      | 6403.7                      | 6632.3      |  |

**Photometric test report**

|                                    |  |                                     |
|------------------------------------|--|-------------------------------------|
| <b>Family</b><br><b>Silica® 21</b> | <b>Order number: 51MX30DC49WB</b><br><b>EAN: 4058352892770</b> | <b>LP number</b><br><b>59413_58</b> |
|------------------------------------|--|-------------------------------------|

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



## Photometric test report

|                             |  |                              |
|-----------------------------|--|------------------------------|
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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                       | 10520              | 64.1                  |
| 95              | 241                  | 252                       | 9996               | 60.8                  |
| 90              | 228                  | 250                       | 9469               | 58.0                  |
| 85              | 215                  | 248                       | 8942               | 54.9                  |
| 80              | 202                  | 246                       | 8412               | 51.6                  |
| 75              | 189                  | 243                       | 7880               | 48.5                  |
| 70              | 176                  | 241                       | 7346               | 45.6                  |
| 65              | 164                  | 238                       | 6853               | 42.8                  |
| 60              | 151                  | 235                       | 6316               | 39.7                  |
| 55              | 138                  | 232                       | 5778               | 36.6                  |
| 50              | 126                  | 228                       | 5279               | 33.7                  |
| 45              | 113                  | 224                       | 4738               | 30.5                  |
| 40              | 100                  | 220                       | 4195               | 27.3                  |
| 35              | 88                   | 215                       | 3693               | 24.4                  |
| 30              | 75                   | 209                       | 3142               | 21.2                  |
| 25              | 63                   | 203                       | 2637               | 18.3                  |
| 20              | 50                   | 194                       | 2088               | 15.1                  |
| 15              | 38                   | 184                       | 1580               | 12.2                  |
| 10              | 26                   | 171                       | 1071               | 9.1                   |
| 5               | 13                   | 145                       | 517                | 5.6                   |
| 3               | 9                    | 132                       | 347                | 4.1                   |