

## Photometric test report

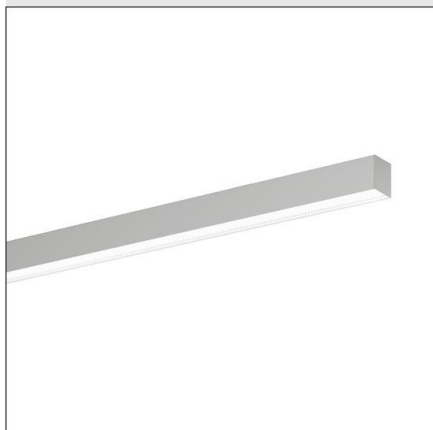
Family  
**Silica® 21**

Order number: **51MX23TBT5S**  
EAN: **4058352687338**

LP number  
**59330\_164**

serial  
documentation  
**03.05.2023**

**siteco**



**Version** surface-mounted luminaire, with homogeneous illumination, prismatic cover, direct distribution, extremely wide distribution,  $UGR \leq 19$  ( $L65 \leq 3000 \text{ cd/m}^2$ ), tunable white

**Lamps** LED 6500 K | CRI  $\geq 80$

**Controlgear** ECG-DALI

**Setting** individual position

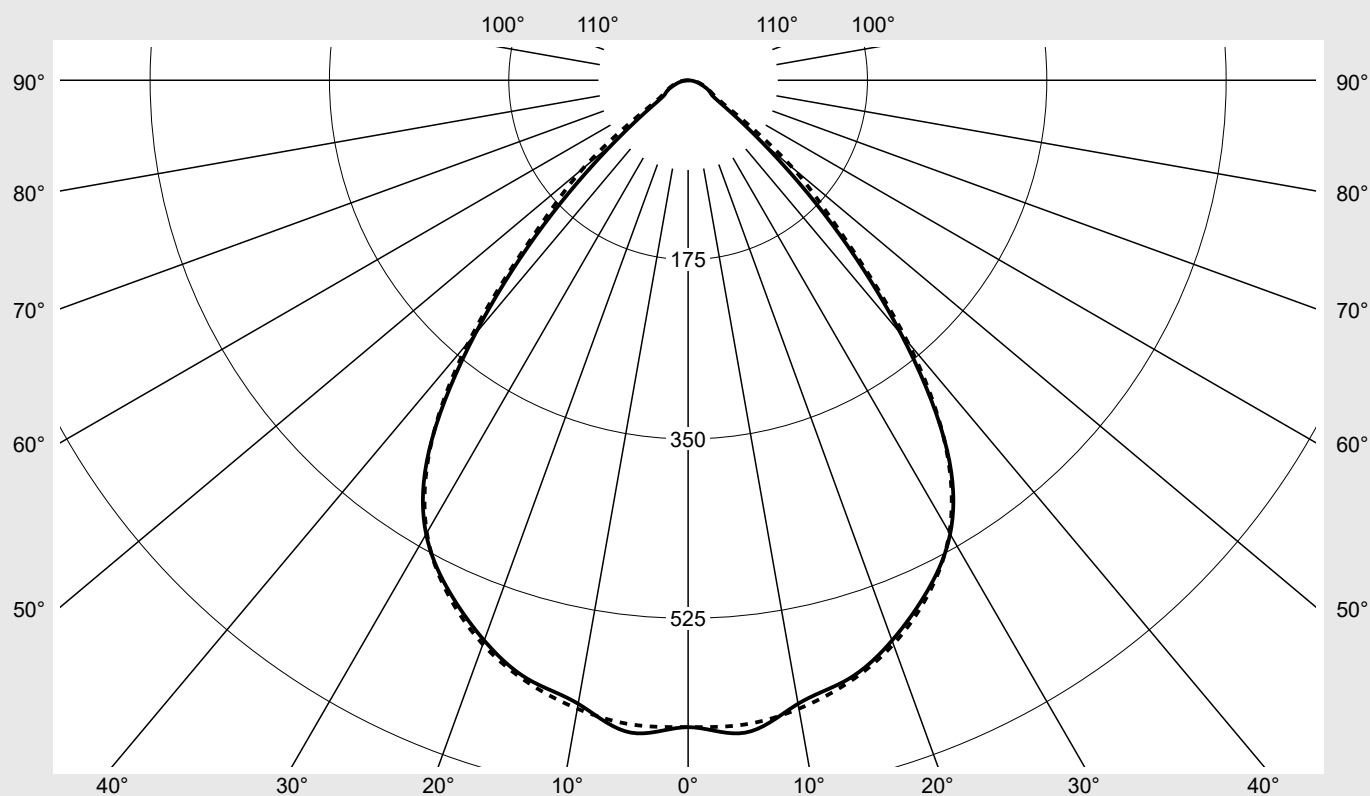
**Rated values** Net luminous flux = 4030 lm  
Power consumption = 40.5 W  
Luminous efficacy = 99.5 lm/W

Luminous intensity in cd/klm

**C180-0**

**C270-90**

**Imax: 642 cd/klm**



### Classifications

DIN 5040 A 6 0  
CIE N1=78 N2=96 N3=99  
N4=100 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  100.0%  
 $\phi_o$  0.0%

### Measurement conditions

DIN EN 13032 and DIN 5032

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|                                          |                                                 |                            |
|------------------------------------------|-------------------------------------------------|----------------------------|
| Family<br>Silica® 21                     | Order number: 51MX23TBT5S<br>EAN: 4058352687338 | LP number<br>59330_164     |
| 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°           | 631.2                        | 631.2                       | 631.2                       | 631.2                       | 631.2                       | 631.2                       | 631.2       | 3.8                     | 3.8               |
| 5°           | 639.0                        | 636.9                       | 635.8                       | 640.8                       | 642.0                       | 634.8                       | 631.1       | 30.5                    | 34.2              |
| 10°          | 617.8                        | 615.8                       | 612.2                       | 616.7                       | 624.6                       | 629.4                       | 622.7       | 59.0                    | 93.2              |
| 15°          | 604.8                        | 603.1                       | 597.6                       | 597.0                       | 601.6                       | 607.9                       | 607.8       | 85.4                    | 178.7             |
| 20°          | 581.7                        | 581.2                       | 575.6                       | 575.6                       | 576.2                       | 579.7                       | 585.7       | 108.5                   | 287.2             |
| 25°          | 550.9                        | 551.4                       | 546.3                       | 545.8                       | 546.2                       | 547.0                       | 553.9       | 127.0                   | 414.1             |
| 30°          | 511.3                        | 512.1                       | 506.5                       | 506.8                       | 506.5                       | 506.0                       | 509.9       | 139.2                   | 553.4             |
| 35°          | 440.5                        | 440.8                       | 437.0                       | 438.8                       | 441.2                       | 438.6                       | 439.0       | 138.1                   | 691.5             |
| 40°          | 323.4                        | 324.8                       | 326.1                       | 329.4                       | 332.6                       | 332.8                       | 333.0       | 115.9                   | 807.4             |
| 45°          | 198.4                        | 199.0                       | 200.7                       | 203.5                       | 206.3                       | 209.2                       | 212.1       | 79.1                    | 886.5             |
| 50°          | 93.9                         | 108.5                       | 122.0                       | 111.2                       | 100.2                       | 119.3                       | 133.6       | 47.2                    | 933.7             |
| 55°          | 37.7                         | 51.0                        | 48.2                        | 55.0                        | 41.5                        | 57.5                        | 53.4        | 22.4                    | 956.1             |
| 60°          | 25.5                         | 26.5                        | 28.2                        | 26.2                        | 26.1                        | 27.8                        | 29.0        | 12.8                    | 968.9             |
| 65°          | 21.0                         | 20.8                        | 21.7                        | 21.1                        | 22.1                        | 22.0                        | 22.3        | 10.7                    | 979.6             |
| 70°          | 15.2                         | 15.5                        | 16.2                        | 16.1                        | 16.4                        | 16.6                        | 17.4        | 8.3                     | 987.9             |
| 75°          | 10.6                         | 11.0                        | 12.1                        | 11.5                        | 11.8                        | 12.4                        | 12.4        | 6.2                     | 994.1             |
| 80°          | 6.4                          | 6.8                         | 7.5                         | 8.1                         | 7.5                         | 8.4                         | 8.5         | 4.1                     | 998.3             |
| 85°          | 2.4                          | 2.5                         | 2.6                         | 3.2                         | 3.5                         | 4.1                         | 4.3         | 1.7                     | 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            |

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|                              |     |                     |                                                 |      |      |      |                    |      |      |                        |      |
|------------------------------|-----|---------------------|-------------------------------------------------|------|------|------|--------------------|------|------|------------------------|------|
| Family<br>Silica® 21         |     |                     | Order number: 51MX23TBT5S<br>EAN: 4058352687338 |      |      |      |                    |      |      | LP number<br>59330_164 |      |
| 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  | 18.4                | 19.7                                            | 18.7 | 20.0 | 20.4 | 18.6               | 20.0 | 18.9 | 20.3                   | 20.6 |
|                              | 3H  | 18.4                | 19.6                                            | 18.8 | 20.0 | 20.3 | 18.7               | 19.9 | 19.1 | 20.2                   | 20.6 |
|                              | 4H  | 18.5                | 19.6                                            | 18.9 | 19.9 | 20.3 | 18.7               | 19.8 | 19.1 | 20.2                   | 20.6 |
|                              | 6H  | 18.5                | 19.5                                            | 18.9 | 19.9 | 20.3 | 18.8               | 19.8 | 19.2 | 20.2                   | 20.6 |
|                              | 8H  | 18.6                | 19.5                                            | 19.0 | 19.9 | 20.3 | 18.9               | 19.8 | 19.3 | 20.2                   | 20.6 |
|                              | 12H | 18.6                | 19.4                                            | 19.0 | 19.8 | 20.2 | 18.9               | 19.8 | 19.4 | 20.1                   | 20.6 |
| 4H                           | 2H  | 18.3                | 19.4                                            | 18.7 | 19.8 | 20.1 | 18.5               | 19.6 | 18.9 | 20.0                   | 20.4 |
|                              | 3H  | 18.4                | 19.4                                            | 18.9 | 19.8 | 20.2 | 18.7               | 19.6 | 19.1 | 20.0                   | 20.4 |
|                              | 4H  | 18.5                | 19.3                                            | 19.0 | 19.8 | 20.2 | 18.8               | 19.6 | 19.2 | 20.0                   | 20.5 |
|                              | 6H  | 18.6                | 19.3                                            | 19.1 | 19.7 | 20.2 | 18.9               | 19.6 | 19.4 | 20.1                   | 20.5 |
|                              | 8H  | 18.6                | 19.3                                            | 19.1 | 19.7 | 20.2 | 19.0               | 19.6 | 19.5 | 20.1                   | 20.6 |
|                              | 12H | 18.7                | 19.2                                            | 19.1 | 19.7 | 20.2 | 19.1               | 19.6 | 19.6 | 20.1                   | 20.6 |
| 8H                           | 4H  | 18.5                | 19.2                                            | 19.0 | 19.6 | 20.1 | 18.8               | 19.4 | 19.2 | 19.9                   | 20.3 |
|                              | 6H  | 18.7                | 19.2                                            | 19.2 | 19.7 | 20.2 | 19.0               | 19.5 | 19.5 | 20.0                   | 20.5 |
|                              | 8H  | 18.7                | 19.2                                            | 19.2 | 19.6 | 20.2 | 19.1               | 19.5 | 19.6 | 20.0                   | 20.5 |
|                              | 12H | 18.7                | 19.1                                            | 19.3 | 19.6 | 20.2 | 19.2               | 19.5 | 19.7 | 20.0                   | 20.6 |
| 12H                          | 4H  | 18.5                | 19.1                                            | 19.0 | 19.5 | 20.0 | 18.8               | 19.3 | 19.3 | 19.8                   | 20.3 |
|                              | 6H  | 18.7                | 19.1                                            | 19.2 | 19.6 | 20.1 | 19.0               | 19.4 | 19.5 | 19.9                   | 20.4 |
|                              | 8H  | 18.7                | 19.1                                            | 19.3 | 19.6 | 20.1 | 19.1               | 19.4 | 19.6 | 20.0                   | 20.5 |

|                          |          |                                 |                             |                               |                             |                             |                             |
|--------------------------|----------|---------------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|
| Luminance table          |          | Max. for $\gamma \geq 65^\circ$ |                             | Photometric dimensions in mm: |                             | L = 1500<br>B = 50          |                             |
| 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° |
|                          |          |                                 | Luminance in cd/m²          |                               |                             |                             |                             |
| 45°<br>50°<br>55°<br>60° | $\gamma$ | 15075.3                         | 15124.1                     | 15251.9                       | 15464.7                     | 15675.5                     | 15900.2                     |
|                          |          | 7849.2                          | 9067.6                      | 10200.3                       | 9299.4                      | 8379.5                      | 9971.5                      |
|                          |          | 3532.2                          | 4776.8                      | 4517.0                        | 5150.0                      | 3884.7                      | 5383.0                      |
|                          |          | 2739.1                          | 2851.6                      | 3025.5                        | 2810.3                      | 2802.6                      | 2990.3                      |
| 65°<br>70°<br>75°<br>80° | $\gamma$ | 2666.1                          | 2648.8                      | 2759.4                        | 2682.4                      | 2809.2                      | 2795.6                      |
|                          |          | 2387.4                          | 2437.7                      | 2537.4                        | 2526.1                      | 2572.1                      | 2602.3                      |
|                          |          | 2195.9                          | 2275.8                      | 2505.2                        | 2397.1                      | 2450.4                      | 2570.2                      |
|                          |          | 1976.1                          | 2099.5                      | 2318.0                        | 2521.0                      | 2333.5                      | 2609.2                      |
| 85°                      | $\gamma$ | 1493.8                          | 1516.0                      | 1617.1                        | 1977.2                      | 2131.3                      | 2504.9                      |

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Family  
Silica® 21

Order number: 51MX23TBT5S  
EAN: 4058352687338

LP number  
59330\_164

Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

siteco

