

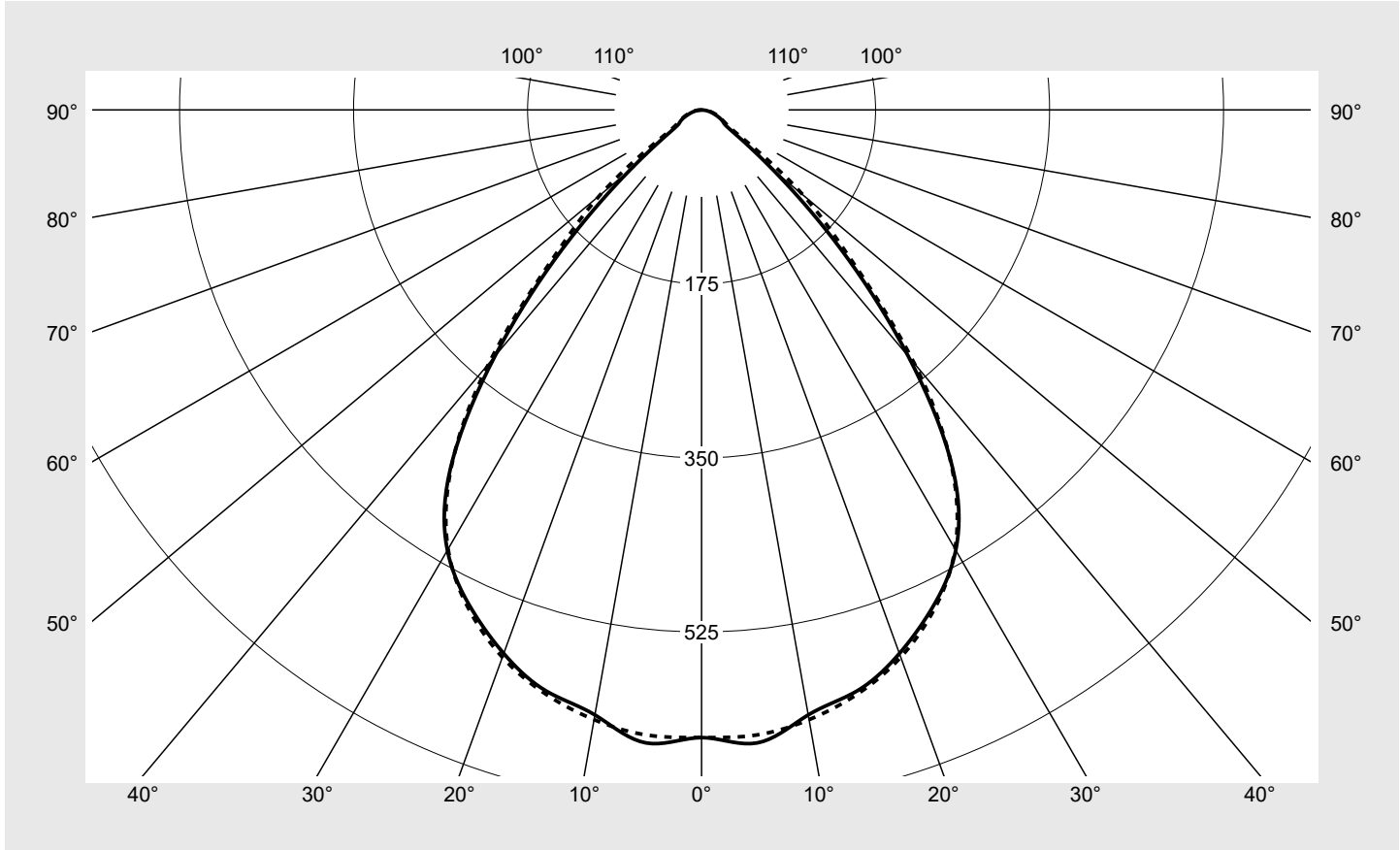


Photometric test report

| | | |
|--|---|--|
| Family Silica® 21 | Order number: 51MX23TBT5S EAN: 4058352687338 | LP number 59330_163 |
|  | Version | surface-mounted luminaire, with homogeneous illumination, prismatic cover, direct distribution, extremely wide distribution, UGR≤19 (L65≤3000cd/m²), tunable white |
| | Lamps | LED 4000 K CRI ≥ 80 |
| | Controlgear | ECG-DALI |
| | Setting | factory setting |
| | Rated values | Net luminous flux = 4030 lm Power consumption = 42.6 W Luminous efficacy = 94.6 lm/W |
| | | serial documentation 03.05.2023 |
| | |  |

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 | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 100.0% |
| ϕ_o | 0.0% |

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

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| Table of values for luminous intensities | | Maximum luminous intensity |
| | | siteco |

| C-planes γ | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-zone | Total Phi-zone |
|------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|-------------------------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | |
| 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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| | | | |
|-----------|---------------|--------|--|
| 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 B = 50 |
|-----------------|---------------------------------|-------------------------------|--------------------|

| C-planes | γ | Luminance in cd/m ² | | | | | | | |
|----------|----------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
| | | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° | |
| 45° | | 15075.3 | 15124.1 | 15251.9 | 15464.7 | 15675.5 | 15900.2 | 16116.3 | |
| 50° | | 7849.2 | 9067.6 | 10200.3 | 9299.4 | 8379.5 | 9971.5 | 11166.7 | |
| 55° | | 3532.2 | 4776.8 | 4517.0 | 5150.0 | 3884.7 | 5383.0 | 5006.4 | |
| 60° | | 2739.1 | 2851.6 | 3025.5 | 2810.3 | 2802.6 | 2990.3 | 3114.4 | |
| 65° | | 2666.1 | 2648.8 | 2759.4 | 2682.4 | 2809.2 | 2795.6 | 2834.7 | |
| 70° | | 2387.4 | 2437.7 | 2537.4 | 2526.1 | 2572.1 | 2602.3 | 2734.4 | |
| 75° | | 2195.9 | 2275.8 | 2505.2 | 2397.1 | 2450.4 | 2570.2 | 2574.6 | |
| 80° | | 1976.1 | 2099.5 | 2318.0 | 2521.0 | 2333.5 | 2609.2 | 2615.1 | |
| 85° | | 1493.8 | 1516.0 | 1617.1 | 1977.2 | 2131.3 | 2504.9 | 2627.6 | |

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°

