



Photometric test report

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|--|---|---|
| Family Silica® 21 | Order number: 51MX23DA34WB EAN: 4058352898918 | LP number 59330_237 |
|  | Version surface-mounted luminaire, with homogeneous illumination, prismatic cover, direct distribution, extremely wide distribution, UGR≤19 (L65≤3000cd/m²) | serial documentation 02.08.2023 |
| | Lamps LED 3000 K CRI ≥ 80 | |
| | Controlgear ECG-DALI | |
| Rated values Net luminous flux = 3280 lm Power consumption = 24.1 W Luminous efficacy = 136.1 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 | |
|-------------------------------|--------|
| 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 | 19.8 | 18.8 | 20.1 | 20.4 | 18.6 | 20.0 | 19.0 | 20.3 | 20.6 |
| | 3H | 18.5 | 19.7 | 18.9 | 20.0 | 20.4 | 18.7 | 19.9 | 19.1 | 20.3 | 20.6 |
| | 4H | 18.5 | 19.7 | 18.9 | 20.0 | 20.4 | 18.8 | 19.9 | 19.2 | 20.3 | 20.6 |
| | 6H | 18.6 | 19.6 | 19.0 | 19.9 | 20.3 | 18.9 | 19.9 | 19.3 | 20.2 | 20.6 |
| | 8H | 18.6 | 19.5 | 19.1 | 19.9 | 20.3 | 19.0 | 19.9 | 19.4 | 20.2 | 20.6 |
| | 12H | 18.6 | 19.5 | 19.1 | 19.9 | 20.3 | 19.0 | 19.8 | 19.4 | 20.2 | 20.6 |
| 4H | 2H | 18.4 | 19.5 | 18.8 | 19.8 | 20.2 | 18.6 | 19.7 | 19.0 | 20.0 | 20.4 |
| | 3H | 18.5 | 19.4 | 18.9 | 19.8 | 20.2 | 18.7 | 19.7 | 19.2 | 20.0 | 20.5 |
| | 4H | 18.6 | 19.4 | 19.0 | 19.8 | 20.3 | 18.8 | 19.7 | 19.3 | 20.1 | 20.5 |
| | 6H | 18.7 | 19.4 | 19.1 | 19.8 | 20.3 | 19.0 | 19.7 | 19.4 | 20.1 | 20.6 |
| | 8H | 18.7 | 19.3 | 19.2 | 19.8 | 20.3 | 19.0 | 19.7 | 19.5 | 20.1 | 20.6 |
| | 12H | 18.7 | 19.3 | 19.2 | 19.7 | 20.2 | 19.1 | 19.7 | 19.6 | 20.1 | 20.6 |
| 8H | 4H | 18.6 | 19.2 | 19.1 | 19.7 | 20.2 | 18.8 | 19.5 | 19.3 | 19.9 | 20.4 |
| | 6H | 18.7 | 19.2 | 19.2 | 19.7 | 20.2 | 19.0 | 19.5 | 19.5 | 20.0 | 20.5 |
| | 8H | 18.8 | 19.2 | 19.3 | 19.7 | 20.2 | 19.1 | 19.6 | 19.6 | 20.1 | 20.6 |
| | 12H | 18.8 | 19.2 | 19.3 | 19.7 | 20.2 | 19.2 | 19.6 | 19.7 | 20.1 | 20.6 |
| 12H | 4H | 18.6 | 19.1 | 19.1 | 19.6 | 20.1 | 18.8 | 19.4 | 19.3 | 19.8 | 20.3 |
| | 6H | 18.7 | 19.2 | 19.3 | 19.7 | 20.2 | 19.0 | 19.5 | 19.5 | 20.0 | 20.5 |
| | 8H | 18.8 | 19.2 | 19.3 | 19.7 | 20.2 | 19.1 | 19.5 | 19.7 | 20.0 | 20.6 |

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|------------------------|---|--------------------------------------|----------------------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1200 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° | | 15337.1 | 15386.8 | 15516.8 | 15733.4 | 15947.7 | 16176.3 | 16396.2 | |
| 50° | | 7985.6 | 9225.1 | 10377.4 | 9461.0 | 8525.0 | 10144.7 | 11360.6 | |
| 55° | | 3593.5 | 4859.8 | 4595.5 | 5239.5 | 3952.2 | 5476.5 | 5093.4 | |
| 60° | | 2786.7 | 2901.2 | 3078.1 | 2859.1 | 2851.3 | 3042.2 | 3168.5 | |
| 65° | | 2712.4 | 2694.8 | 2807.3 | 2728.9 | 2858.0 | 2844.2 | 2883.9 | |
| 70° | | 2428.8 | 2480.0 | 2581.5 | 2570.0 | 2616.8 | 2647.5 | 2781.9 | |
| 75° | | 2234.0 | 2315.3 | 2548.7 | 2438.7 | 2493.0 | 2614.9 | 2619.3 | |
| 80° | | 2010.4 | 2136.0 | 2358.3 | 2564.8 | 2374.0 | 2654.5 | 2660.5 | |
| 85° | | 1519.8 | 1542.4 | 1645.2 | 2011.5 | 2168.3 | 2548.4 | 2673.3 | |

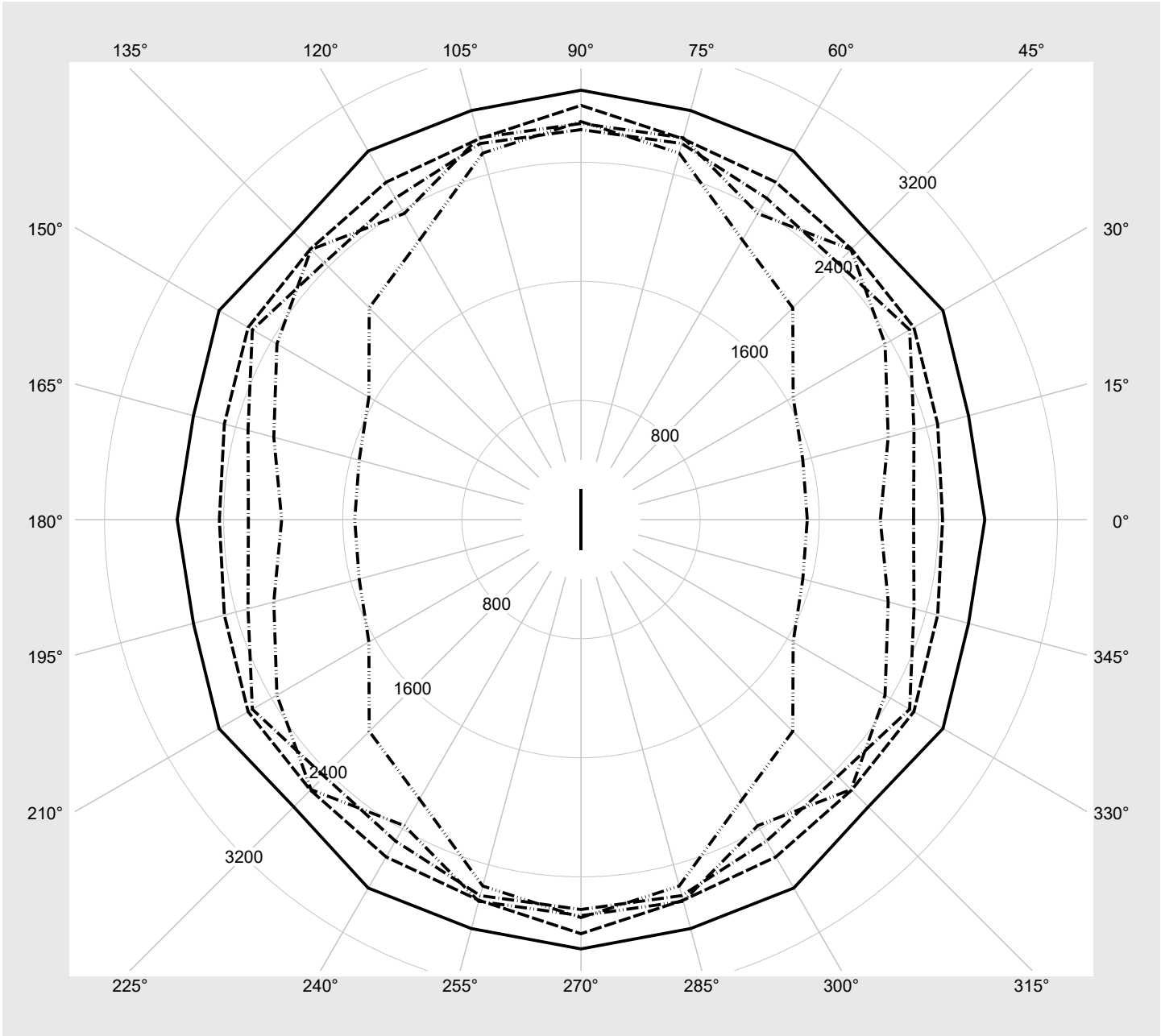
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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| Dimming levels table | environmental temperature: 25°C | sITeco |
|-----------------------------|---------------------------------|---------------|

| Luminous flux % | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-----------------|----------------------|---------------------------|--------------------|-----------------------|
| 100 | 254 | 254 | 3280 | 24.1 |
| 95 | 241 | 252 | 3120 | 22.8 |
| 90 | 227 | 250 | 2948 | 21.4 |
| 85 | 214 | 248 | 2788 | 20.2 |
| 80 | 201 | 245 | 2626 | 19.0 |
| 75 | 188 | 243 | 2463 | 17.7 |
| 70 | 175 | 240 | 2299 | 16.5 |
| 65 | 162 | 238 | 2133 | 15.3 |
| 60 | 149 | 234 | 1967 | 14.1 |
| 55 | 136 | 231 | 1800 | 12.9 |
| 50 | 124 | 228 | 1644 | 11.8 |
| 45 | 111 | 224 | 1475 | 10.5 |
| 40 | 99 | 219 | 1318 | 9.5 |
| 35 | 86 | 214 | 1147 | 8.4 |
| 30 | 74 | 209 | 988 | 7.3 |
| 25 | 61 | 202 | 815 | 6.2 |
| 20 | 49 | 194 | 655 | 5.1 |
| 15 | 37 | 183 | 493 | 4.1 |
| 10 | 25 | 169 | 332 | 3.1 |
| 5 | 13 | 145 | 169 | 1.8 |
| 3 | 9 | 132 | 115 | 1.3 |