

Photometric test report

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|--|--|---|
| Family Silica® 21 | Order number: 51MX22TCTAS EAN: 4058352800157 | LP number 59272_139 |
|  | Version surface-mounted luminaire, reflector, black, direct distribution, wide distribution, UGR≤19 (L65≤1000cd/m²), tunable white | serial documentation 03.05.2023 |
| | Lamps LED 6500 K CRI ≥ 80 Controlgear ECG-DALI Setting individual position Rated values Net luminous flux = 9300 lm Power consumption = 80.4 W Luminous efficacy = 115.7 lm/W |  |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 700 cd/klm**



| Classifications | |
|-----------------|-------------------------------------|
| DIN 5040 | A 6 0 |
| CIE | N1=84 N2=99 N3=100 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° | 698.3 | 698.3 | 698.3 | 698.3 | 698.3 | 698.3 | 698.3 | 4.2 | 4.2 |
| 5° | 699.6 | 698.5 | 693.9 | 696.9 | 698.4 | 696.4 | 699.4 | 33.3 | 37.5 |
| 10° | 694.6 | 694.5 | 689.5 | 695.3 | 694.0 | 687.7 | 690.0 | 65.9 | 103.4 |
| 15° | 672.6 | 676.2 | 675.2 | 682.1 | 683.0 | 677.2 | 674.7 | 96.2 | 199.5 |
| 20° | 643.1 | 649.9 | 651.2 | 653.1 | 656.2 | 653.1 | 648.8 | 122.2 | 321.7 |
| 25° | 605.9 | 614.8 | 613.8 | 608.6 | 601.9 | 597.0 | 589.1 | 140.3 | 462.0 |
| 30° | 546.6 | 557.0 | 551.8 | 537.6 | 523.2 | 517.8 | 519.3 | 147.1 | 609.1 |
| 35° | 452.6 | 459.5 | 452.6 | 444.2 | 440.2 | 442.2 | 446.7 | 140.9 | 750.0 |
| 40° | 321.1 | 327.1 | 329.4 | 337.0 | 343.8 | 344.5 | 346.6 | 118.4 | 868.3 |
| 45° | 172.2 | 187.2 | 203.3 | 211.2 | 210.4 | 196.6 | 193.1 | 77.0 | 945.3 |
| 50° | 63.8 | 73.4 | 88.4 | 94.7 | 94.6 | 78.0 | 74.0 | 34.9 | 980.1 |
| 55° | 17.5 | 22.2 | 30.2 | 37.1 | 33.0 | 23.7 | 21.3 | 12.4 | 992.5 |
| 60° | 5.9 | 7.1 | 10.7 | 14.2 | 11.5 | 8.5 | 8.2 | 4.7 | 997.2 |
| 65° | 2.1 | 2.5 | 3.7 | 4.8 | 4.2 | 3.3 | 3.2 | 1.8 | 998.9 |
| 70° | 1.4 | 1.5 | 1.1 | 1.1 | 1.3 | 1.7 | 1.7 | 0.7 | 999.6 |
| 75° | 0.3 | 0.4 | 0.3 | 0.5 | 0.4 | 0.5 | 0.5 | 0.2 | 999.9 |
| 80° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 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 |

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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 | 18.6 | 19.9 | 19.0 | 20.2 | 20.6 | 18.7 | 20.0 | 19.1 | 20.4 | 20.7 |
| | 3H | 18.5 | 19.6 | 18.9 | 20.0 | 20.3 | 18.6 | 19.8 | 19.0 | 20.1 | 20.4 |
| | 4H | 18.4 | 19.5 | 18.8 | 19.8 | 20.2 | 18.5 | 19.6 | 18.9 | 19.9 | 20.3 |
| | 6H | 18.4 | 19.3 | 18.8 | 19.7 | 20.1 | 18.5 | 19.4 | 18.9 | 19.8 | 20.2 |
| | 8H | 18.4 | 19.2 | 18.8 | 19.6 | 20.0 | 18.5 | 19.3 | 18.9 | 19.7 | 20.1 |
| | 12H | 18.4 | 19.1 | 18.8 | 19.5 | 19.9 | 18.5 | 19.2 | 18.9 | 19.6 | 20.1 |
| 4H | 2H | 18.5 | 19.5 | 18.9 | 19.9 | 20.2 | 18.6 | 19.6 | 19.0 | 20.0 | 20.3 |
| | 3H | 18.3 | 19.2 | 18.7 | 19.6 | 20.0 | 18.4 | 19.3 | 18.8 | 19.7 | 20.1 |
| | 4H | 18.2 | 19.0 | 18.7 | 19.4 | 19.8 | 18.3 | 19.1 | 18.8 | 19.5 | 19.9 |
| | 6H | 18.1 | 18.8 | 18.6 | 19.2 | 19.7 | 18.3 | 18.9 | 18.7 | 19.3 | 19.8 |
| | 8H | 18.1 | 18.7 | 18.6 | 19.1 | 19.6 | 18.2 | 18.8 | 18.7 | 19.2 | 19.7 |
| | 12H | 18.1 | 18.6 | 18.6 | 19.0 | 19.5 | 18.2 | 18.7 | 18.7 | 19.1 | 19.6 |
| 8H | 4H | 18.1 | 18.7 | 18.6 | 19.1 | 19.6 | 18.2 | 18.8 | 18.7 | 19.2 | 19.7 |
| | 6H | 18.0 | 18.5 | 18.5 | 18.9 | 19.5 | 18.1 | 18.6 | 18.6 | 19.1 | 19.6 |
| | 8H | 17.9 | 18.4 | 18.4 | 18.8 | 19.4 | 18.0 | 18.5 | 18.6 | 19.0 | 19.5 |
| | 12H | 17.9 | 18.2 | 18.4 | 18.7 | 19.3 | 18.0 | 18.4 | 18.6 | 18.9 | 19.4 |
| 12H | 4H | 18.1 | 18.6 | 18.6 | 19.0 | 19.5 | 18.2 | 18.7 | 18.7 | 19.1 | 19.6 |
| | 6H | 18.0 | 18.4 | 18.5 | 18.8 | 19.4 | 18.1 | 18.5 | 18.6 | 19.0 | 19.5 |
| | 8H | 17.9 | 18.2 | 18.4 | 18.7 | 19.3 | 18.0 | 18.4 | 18.6 | 18.9 | 19.4 |

| | | | |
|------------------------|---|--------------------------------------|-----------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 2940 |
| | | | B = 49 |

| 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° | | 15725.2 | 17086.3 | 18560.6 | 19278.1 | 19212.9 | 17951.7 | 17629.9 | |
| 50° | | 6408.6 | 7376.3 | 8881.8 | 9511.4 | 9497.6 | 7836.5 | 7432.3 | |
| 55° | | 1966.5 | 2494.6 | 3397.9 | 4177.4 | 3714.3 | 2661.8 | 2393.3 | |
| 60° | | 763.8 | 919.4 | 1380.1 | 1837.0 | 1479.1 | 1094.1 | 1054.1 | |
| 65° | | 326.0 | 385.7 | 558.8 | 735.7 | 645.4 | 500.6 | 489.0 | |
| 70° | | 257.1 | 274.3 | 208.6 | 204.0 | 247.3 | 319.2 | 327.3 | |
| 75° | | 76.1 | 101.0 | 84.3 | 117.7 | 109.2 | 128.2 | 116.5 | |
| 80° | | 21.2 | 24.9 | 35.3 | 46.1 | 60.2 | 71.0 | 74.4 | |
| 85° | | 28.1 | 31.9 | 52.6 | 74.1 | 102.2 | 130.4 | 141.5 | |

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

