# Lichttechnischer Prüfbefund

**Familie**
**Silica® 21**

**Bestell-Nr.: 51MX21TAT4W**
**EAN: 4058352626313**

| | |
|---|---|
| **Ausführung** | Anbauleuchte, Reflektor, schwarz, direkt strahlend, eng strahlend, UGR≤19 (L65≤3000cd/m²), Tunable White |
| **Bestückung** | LED 6500 K \| CRI ≥ 80 |
| **Betriebsgerät** | EVG-DALI |
| **Einstellung** | indiv. Einstellung |
| **Bemessungswerte** | Nettolichtstrom = 3720 lm<br>Systemleistung = 32.2 W<br>Lichtausbeute = 115.5 lm/W |

**LP-Nummer**
**59274_67**

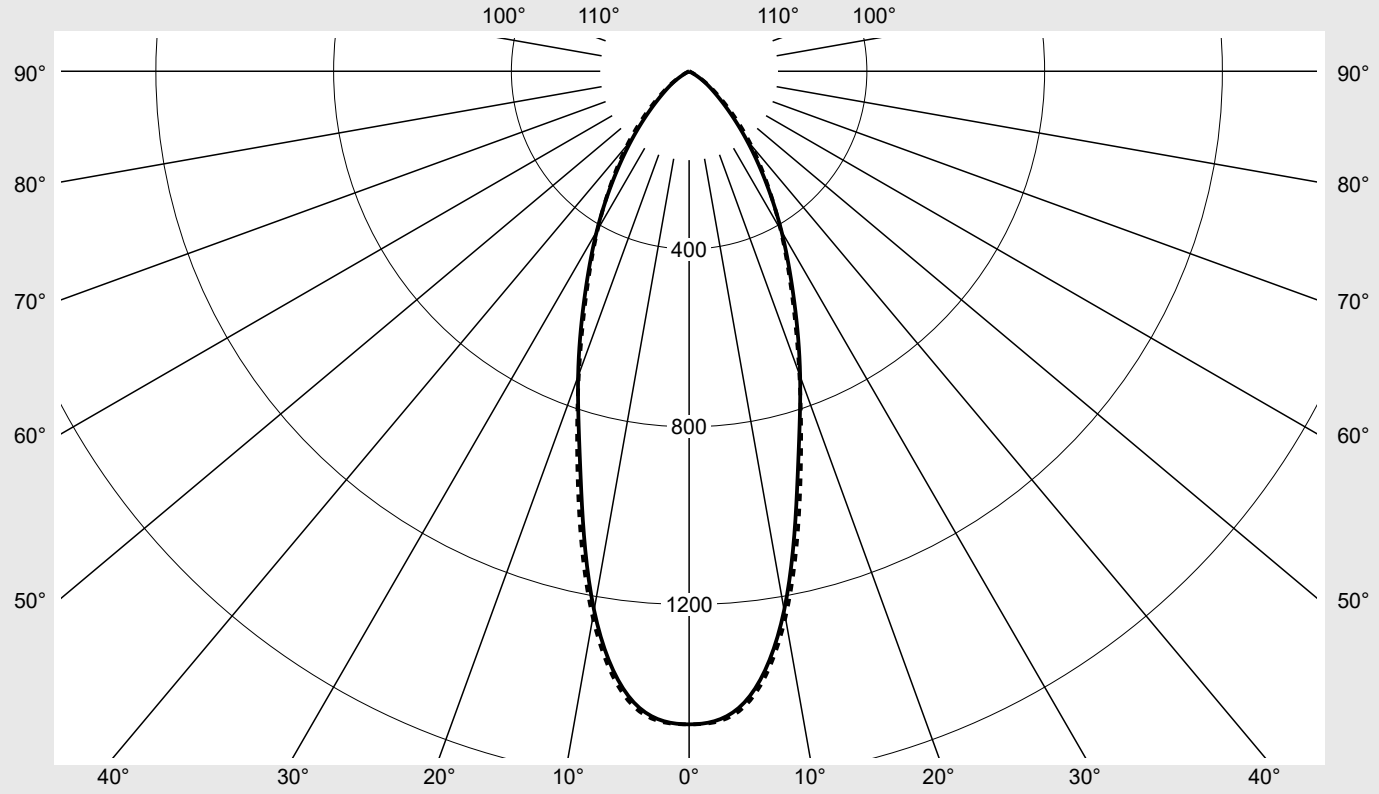
**Seriendokumentation**
**03.05.2023**

siteco

## Lichtstärke in cd/klm

C180-0 C270-90

**Imax: 1470 cd/klm**




### Klassifizierungen

| | |
|---|---|
| DIN 5040 | A 7 0 |
| CIE | N1=85 N2=99 N3=100 N4=100 N5=100 |

### Leuchtenbetriebswirkungsgrade

| | |
|---|---|
| ηLB | 100,0% |
| $\phi_u$ | 100,0% |
| $\phi_o$ | 0,0% |

### Messbedingungen

DIN EN 13032 und DIN 5032

## Lichttechnischer Prüfbefund

| Familie | Bestell-Nr.: 51MX21TAT4W | LP-Nummer |
|---|---|---|
| Silica® 21 | EAN: 4058352626313 | 59274_67 |

siteco

### Wertetabelle Lichtstärkemessung

Maximale Lichtstärke

| C-Ebenen | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° | Phi-Zone | Summe Phi-Zone |
|---|---|---|---|---|---|---|---|---|---|
| γ | Lichtstärke in cd/klm | | | | | | | Lichtstrom in lm/klm | |
| 0° | 1469.7 | 1469.7 | 1469.7 | 1469.7 | 1469.7 | 1469.7 | 1469.7 | 8.8 | 8.8 |
| 5° | 1425.9 | 1423.7 | 1417.2 | 1426.5 | 1433.0 | 1431.2 | 1434.7 | 68.2 | 77.0 |
| 10° | 1231.5 | 1233.2 | 1235.5 | 1249.4 | 1249.6 | 1243.0 | 1248.1 | 118.2 | 195.2 |
| 15° | 943.7 | 950.9 | 962.6 | 981.4 | 980.5 | 965.2 | 966.6 | 137.0 | 332.2 |
| 20° | 730.3 | 729.1 | 721.8 | 719.8 | 726.6 | 719.9 | 725.4 | 135.8 | 468.0 |
| 25° | 554.7 | 552.6 | 536.3 | 523.0 | 531.2 | 537.4 | 545.0 | 124.7 | 592.7 |
| 30° | 415.7 | 413.6 | 392.8 | 386.6 | 400.6 | 405.5 | 411.7 | 110.2 | 702.9 |
| 35° | 297.0 | 298.7 | 284.3 | 282.2 | 303.6 | 308.4 | 303.5 | 93.1 | 796.0 |
| 40° | 200.5 | 204.3 | 201.1 | 204.4 | 221.4 | 223.2 | 217.2 | 74.2 | 870.2 |
| 45° | 125.8 | 129.2 | 131.9 | 140.1 | 150.2 | 148.5 | 143.7 | 53.9 | 924.1 |
| 50° | 74.7 | 77.5 | 82.6 | 89.5 | 95.9 | 91.3 | 86.7 | 36.2 | 960.3 |
| 55° | 42.1 | 44.5 | 49.0 | 54.2 | 57.0 | 52.1 | 48.8 | 22.6 | 982.9 |
| 60° | 13.9 | 17.2 | 26.8 | 30.8 | 30.6 | 21.8 | 18.2 | 11.3 | 994.3 |
| 65° | 4.2 | 5.3 | 8.3 | 15.7 | 9.7 | 6.0 | 5.5 | 4.1 | 998.4 |
| 70° | 1.8 | 1.9 | 1.6 | 3.1 | 2.1 | 2.4 | 2.5 | 1.1 | 999.6 |
| 75° | 0.4 | 0.5 | 0.5 | 0.7 | 0.7 | 0.7 | 0.5 | 0.3 | 999.9 |
| 80° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.1 | 999.9 |
| 85° | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 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 |

# Lichttechnischer Prüfbefund

| Familie | Bestell-Nr.: 51MX21TAT4W | LP-Nummer |
|---|---|---|
| Silica® 21 | EAN: 4058352626313 | 59274_67 |

siteco

## UGR-Tabelle

Standardraum

| Reflexionsgrad Decke | | 0,7 | 0,7 | 0,5 | 0,5 | 0,3 | 0,7 | 0,7 | 0,5 | 0,5 | 0,3 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Reflexionsgrad Wände | | 0,5 | 0,3 | 0,5 | 0,3 | 0,3 | 0,5 | 0,3 | 0,5 | 0,3 | 0,3 |
| Reflexionsgrad Boden | | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 |
| Raumabmessungen | | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 16,6 | 17,9 | 17,0 | 18,2 | 18,5 | 17,2 | 18,5 | 17,6 | 18,8 | 19,1 |
| | 3H | 16,5 | 17,6 | 16,9 | 17,9 | 18,3 | 17,1 | 18,2 | 17,5 | 18,5 | 18,9 |
| | 4H | 16,4 | 17,4 | 16,8 | 17,8 | 18,1 | 17,0 | 18,0 | 17,4 | 18,4 | 18,8 |
| | 6H | 16,4 | 17,2 | 16,8 | 17,6 | 18,0 | 17,0 | 17,9 | 17,4 | 18,2 | 18,6 |
| | 8H | 16,4 | 17,2 | 16,8 | 17,5 | 18,0 | 17,0 | 17,8 | 17,5 | 18,2 | 18,6 |
| | 12H | 16,4 | 17,1 | 16,8 | 17,5 | 17,9 | 17,0 | 17,7 | 17,4 | 18,1 | 18,5 |
| 4H | 2H | 16,6 | 17,6 | 17,0 | 17,9 | 18,3 | 17,2 | 18,2 | 17,6 | 18,5 | 18,9 |
| | 3H | 16,4 | 17,3 | 16,9 | 17,6 | 18,1 | 17,0 | 17,8 | 17,5 | 18,2 | 18,6 |
| | 4H | 16,4 | 17,1 | 16,8 | 17,5 | 17,9 | 16,9 | 17,6 | 17,4 | 18,1 | 18,5 |
| | 6H | 16,3 | 16,9 | 16,7 | 17,3 | 17,8 | 16,9 | 17,5 | 17,3 | 17,9 | 18,4 |
| | 8H | 16,2 | 16,8 | 16,7 | 17,2 | 17,7 | 16,8 | 17,3 | 17,3 | 17,8 | 18,3 |
| | 12H | 16,2 | 16,7 | 16,7 | 17,1 | 17,6 | 16,8 | 17,2 | 17,3 | 17,7 | 18,2 |
| 8H | 4H | 16,2 | 16,8 | 16,7 | 17,2 | 17,7 | 16,8 | 17,3 | 17,3 | 17,8 | 18,3 |
| | 6H | 16,1 | 16,6 | 16,6 | 17,0 | 17,5 | 16,7 | 17,1 | 17,2 | 17,6 | 18,1 |
| | 8H | 16,1 | 16,4 | 16,6 | 16,9 | 17,5 | 16,6 | 17,0 | 17,1 | 17,5 | 18,0 |
| | 12H | 16,0 | 16,3 | 16,6 | 16,8 | 17,4 | 16,6 | 16,9 | 17,1 | 17,4 | 18,0 |
| 12H | 4H | 16,2 | 16,7 | 16,7 | 17,1 | 17,6 | 16,8 | 17,2 | 17,3 | 17,7 | 18,2 |
| | 6H | 16,1 | 16,4 | 16,6 | 16,9 | 17,5 | 16,7 | 17,0 | 17,2 | 17,5 | 18,0 |
| | 8H | 16,0 | 16,3 | 16,6 | 16,8 | 17,4 | 16,6 | 16,9 | 17,1 | 17,4 | 18,0 |

## Leuchtdichten-Tabelle

Max. für $\gamma >= 65°$

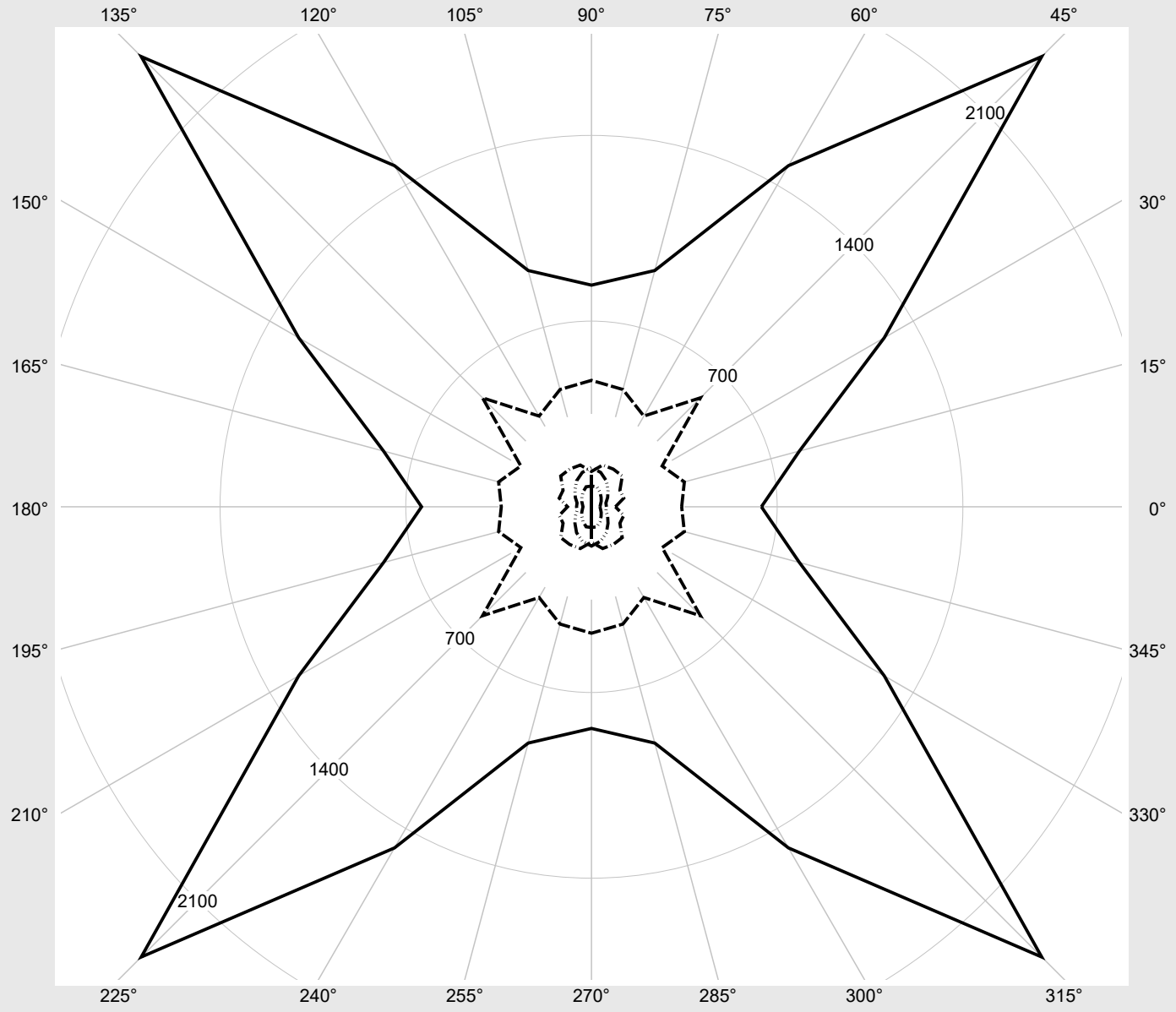
Lichttechnische Abmessungen in mm: L = 1176, B = 49

| C-Ebenen | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° |
|---|---|---|---|---|---|---|---|
| γ | Leuchtdichte in cd/m² | | | | | | |
| 45° | 11481.0 | 11794.1 | 12044.7 | 12792.5 | 13711.6 | 13561.9 | 13115.7 |
| 50° | 7504.0 | 7783.0 | 8297.8 | 8984.0 | 9628.1 | 9169.6 | 8703.1 |
| 55° | 4738.3 | 5006.9 | 5511.6 | 6098.8 | 6410.3 | 5861.2 | 5487.0 |
| 60° | 1797.5 | 2215.8 | 3464.6 | 3982.0 | 3945.0 | 2813.8 | 2344.9 |
| 65° | 640.5 | 811.4 | 1274.4 | 2400.2 | 1484.8 | 922.2 | 835.6 |
| 70° | 339.9 | 362.4 | 307.5 | 581.0 | 394.9 | 457.7 | 476.6 |
| 75° | 90.3 | 126.0 | 123.7 | 164.1 | 164.1 | 162.9 | 133.2 |
| 80° | 32.0 | 35.3 | 42.4 | 51.3 | 63.9 | 78.1 | 78.1 |
| 85° | 56.3 | 56.3 | 70.4 | 88.1 | 112.6 | 134.1 | 148.1 |

## Lichttechnischer Prüfbefund

| Familie | Bestell-Nr.: 51MX21TAT4W | LP-Nummer |
|---|---|---|
| **Silica® 21** | **EAN: 4058352626313** | **59274_67** |

siteco

**Leuchtdichten in cd/m²**

γ 65° γ 70° γ 75° γ 80° γ 85°