

## Lichttechnischer Prüfbefund

Familie  
Silica® 21

Bestell-Nr.: 51MX21TBT5B  
EAN: 4058352687178

LP-Nummer  
59274\_103



**Ausführung** Anbauleuchte, Reflektor, schwarz, direkt strahlend, eng strahlend,  $UGR \leq 19$  ( $L65 \leq 3000 \text{ cd/m}^2$ ), Tunable White

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

**Betriebsgerät** EVG-DALI

**Einstellung** indiv. Einstellung

**Bemessungswerte** Nettolichtstrom = 4650 lm  
Systemleistung = 40.3 W  
Lichtausbeute = 115.4 lm/W

Seriendokumentation  
03.05.2023

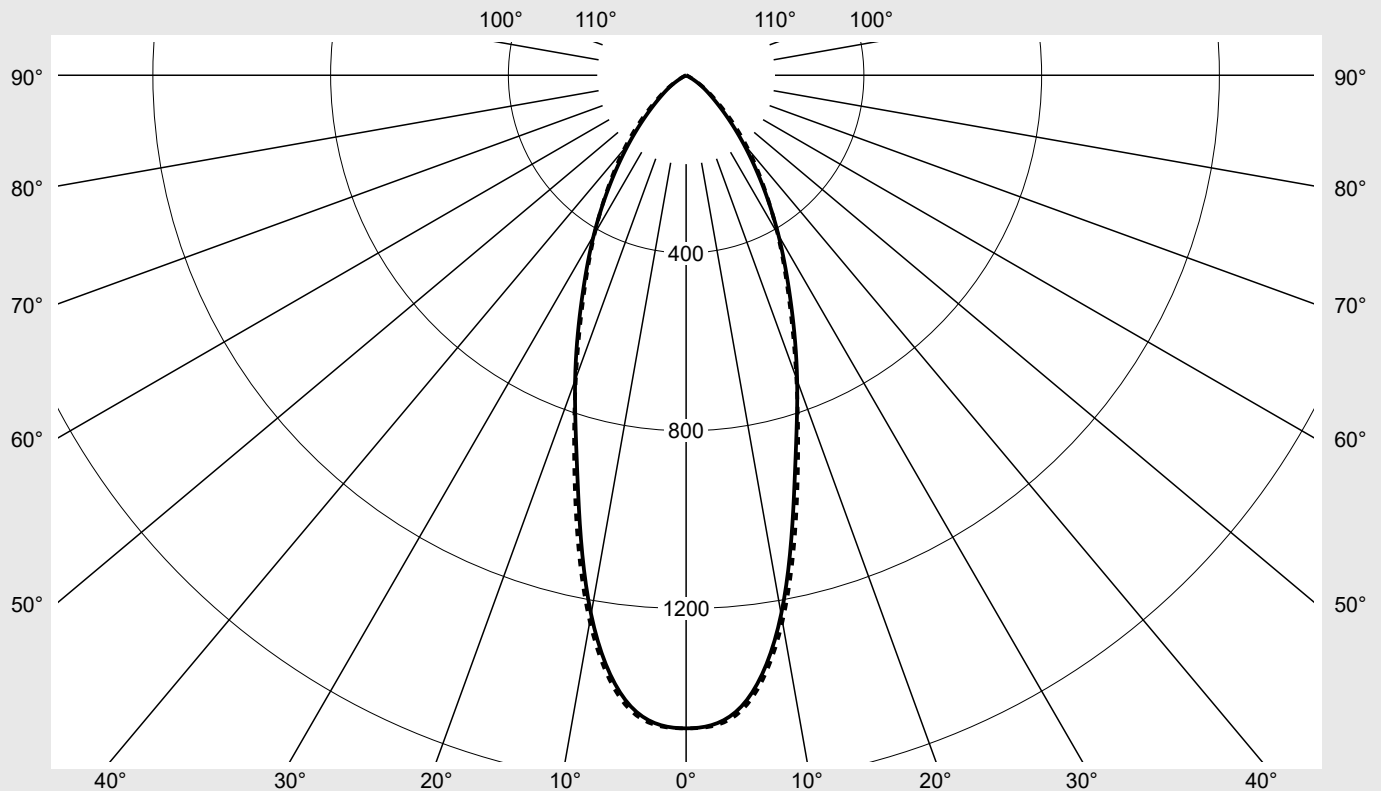
siteco

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

$\eta_{LB}$  100,0%  
 $\phi_u$  100,0%  
 $\phi_o$  0,0%

## Messbedingungen

DIN EN 13032 und DIN 5032

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|                                        |                                                              |                                      |
|----------------------------------------|--------------------------------------------------------------|--------------------------------------|
| <b>Familie</b><br><b>Silica® 21</b>    | <b>Bestell-Nr.: 51MX21TBT5B</b><br><b>EAN: 4058352687178</b> | <b>LP-Nummer</b><br><b>59274_103</b> |
| <b>Wertetabelle Lichtstärkemessung</b> |                                                              | <b>Maximale Lichtstärke</b>          |
|                                        |                                                              | <b>siteco</b>                        |

| C-<br>Ebenen | 0°<br>180° | 15°                   | 30°                  | 45°                  | 60°                  | 75°                  | 90°<br>270° | Phi-Zone             | Summe<br>Phi-Zone |
|--------------|------------|-----------------------|----------------------|----------------------|----------------------|----------------------|-------------|----------------------|-------------------|
|              |            | 165°<br>195°<br>345°  | 150°<br>210°<br>330° | 135°<br>225°<br>315° | 120°<br>240°<br>300° | 105°<br>255°<br>285° |             |                      |                   |
| 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            |

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|                              |                                                              |                               |
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| UGR-Tabelle     |     | Standardraum                        |      |      |      |      |                                       |      |      |      |      |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| 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 |

|                              |                                 |                                    |                    |
|------------------------------|---------------------------------|------------------------------------|--------------------|
| <b>Leuchtdichten-Tabelle</b> | Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: | L = 1470<br>B = 49 |
|------------------------------|---------------------------------|------------------------------------|--------------------|

| C-Ebenen | $\gamma$ | Leuchtdichte in cd/m <sup>2</sup> |                             |                             |                             |                             |                             |             |
|----------|----------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|
|          |          | 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° |
| 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       |

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

