

Lichttechnischer Prüfbefund

**Familie**  
**Silica® 21**

**Bestell-Nr.: 51MX30TBT5W**  
**EAN: 4058352685303**

**LP-Nummer**  
**59412\_38**



**Ausführung**
Pendelleuchte, homogen leuchtend,  
Abdeckung, opal, direkt-/ indirekt strahlend,  
extrem breit strahlend, UGR≤25, Tunable White

**Bestückung**
LED 2700 K | CRI ≥ 80

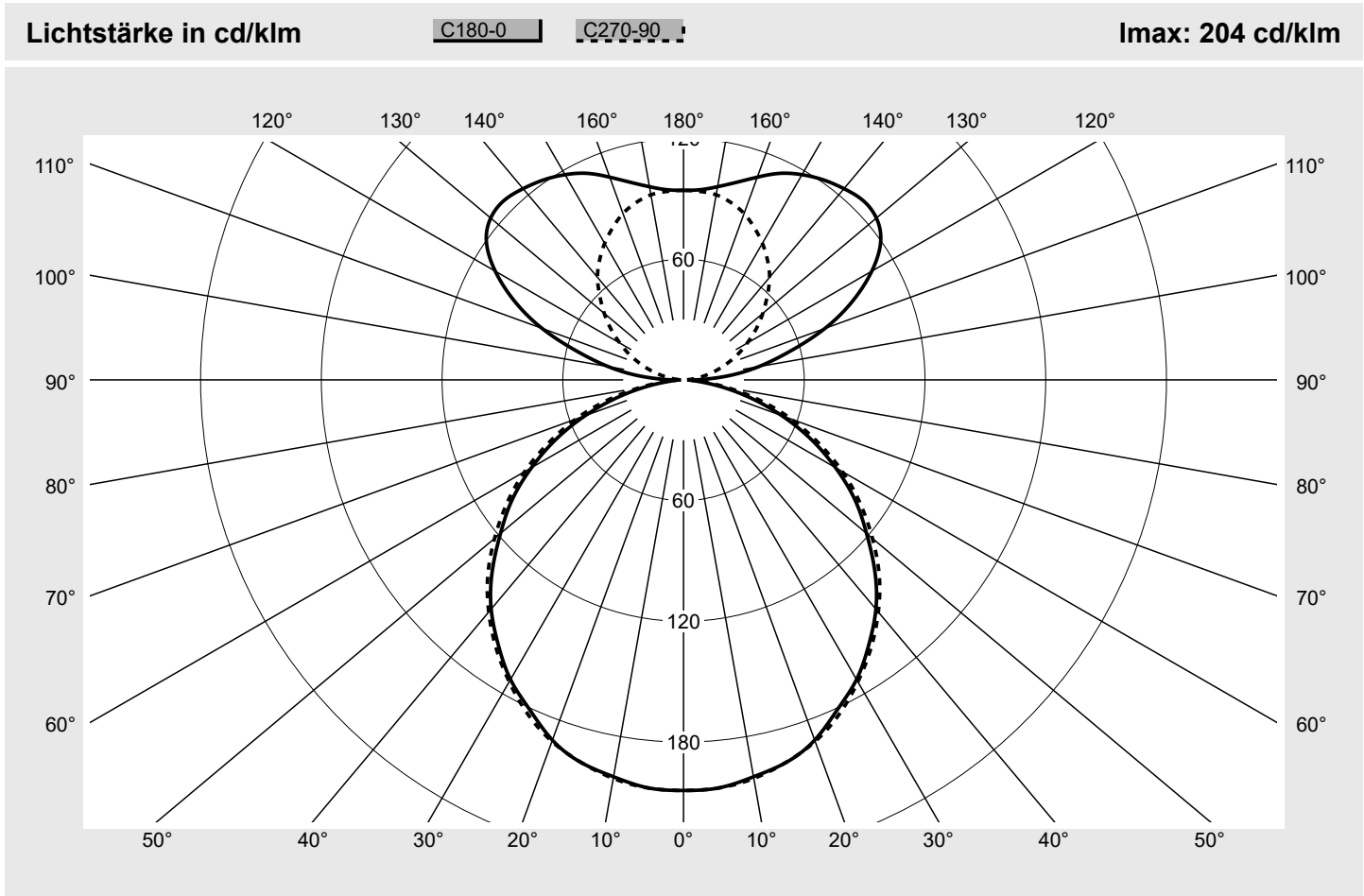
**Betriebsgerät**
EVG-DALI

**Einstellung**
indiv. Einstellung

**Bemessungswerte**
Nettolichtstrom = 5150 lm  
Systemleistung = 46.8 W  
Lichtausbeute = 110 lm/W

**Seriendokumentation**  
**03.05.2023**





| Klassifizierungen |                   | Leuchtenbetriebswirkungsgrade |        |
|-------------------|-------------------|-------------------------------|--------|
| DIN 5040          | C 4 2             | ηLB                           | 100,0% |
| CIE               | N1=47 N2=79 N3=96 | φ <sub>u</sub>                | 57,8%  |
|                   | N4=58 N5=100      | φ <sub>o</sub>                | 42,2%  |

| Messbedingungen           |
|---------------------------|
| DIN EN 13032 und DIN 5032 |

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|                                 |                                                |                       |
|---------------------------------|------------------------------------------------|-----------------------|
| Familie<br>Silica® 21           | Bestell-Nr.: 51MX30TBT5W<br>EAN: 4058352685303 | LP-Nummer<br>59412_38 |
| Wertetabelle Lichtstärkemessung |                                                | Maximale Lichtstärke  |
|                                 |                                                | siteco                |

| C-<br>Ebenen | 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° | Phi-Zone             | Summe<br>Phi-Zone |
|--------------|-----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|----------------------|-------------------|
| γ            | Lichtstärke in cd/klm |                             |                             |                             |                             |                             |             | Lichtstrom in lm/klm |                   |
| 0°           | 204.1                 | 204.1                       | 204.1                       | 204.1                       | 204.1                       | 204.1                       | 204.1       | 1.2                  | 1.2               |
| 5°           | 203.5                 | 203.8                       | 203.3                       | 203.3                       | 203.4                       | 203.8                       | 203.6       | 9.7                  | 10.9              |
| 10°          | 200.3                 | 199.9                       | 199.8                       | 200.3                       | 201.2                       | 200.6                       | 201.1       | 19.1                 | 30.0              |
| 15°          | 196.9                 | 196.3                       | 195.1                       | 196.0                       | 196.7                       | 197.0                       | 196.8       | 27.9                 | 57.9              |
| 20°          | 190.5                 | 190.1                       | 188.7                       | 189.7                       | 189.8                       | 190.2                       | 191.2       | 35.6                 | 93.5              |
| 25°          | 180.9                 | 181.1                       | 180.3                       | 181.3                       | 182.3                       | 182.2                       | 183.2       | 42.1                 | 135.5             |
| 30°          | 172.0                 | 171.7                       | 170.5                       | 171.9                       | 173.3                       | 173.2                       | 173.3       | 47.2                 | 182.7             |
| 35°          | 160.6                 | 160.7                       | 159.7                       | 160.3                       | 160.9                       | 161.7                       | 162.5       | 50.6                 | 233.3             |
| 40°          | 148.7                 | 148.4                       | 148.5                       | 148.2                       | 149.1                       | 149.3                       | 150.6       | 52.5                 | 285.7             |
| 45°          | 134.5                 | 134.5                       | 134.8                       | 134.8                       | 135.4                       | 135.8                       | 137.6       | 52.4                 | 338.1             |
| 50°          | 118.7                 | 119.6                       | 120.0                       | 120.5                       | 121.6                       | 121.8                       | 122.6       | 50.7                 | 388.8             |
| 55°          | 104.0                 | 104.1                       | 104.8                       | 105.3                       | 106.3                       | 106.3                       | 107.2       | 47.3                 | 436.2             |
| 60°          | 87.2                  | 87.5                        | 88.1                        | 88.4                        | 89.8                        | 89.9                        | 91.2        | 42.2                 | 478.3             |
| 65°          | 70.0                  | 70.7                        | 71.5                        | 72.5                        | 73.2                        | 73.9                        | 73.9        | 35.9                 | 514.2             |
| 70°          | 52.0                  | 53.0                        | 53.5                        | 54.9                        | 56.0                        | 56.6                        | 57.0        | 28.2                 | 542.4             |
| 75°          | 34.3                  | 35.1                        | 35.7                        | 36.9                        | 38.2                        | 39.1                        | 39.4        | 19.6                 | 562.0             |
| 80°          | 18.0                  | 18.4                        | 19.0                        | 19.8                        | 21.0                        | 21.9                        | 22.2        | 10.8                 | 572.8             |
| 85°          | 5.8                   | 6.0                         | 6.3                         | 6.8                         | 7.4                         | 8.1                         | 8.3         | 3.8                  | 576.6             |
| 90°          | 6.3                   | 6.1                         | 6.5                         | 6.3                         | 3.9                         | 1.8                         | 1.1         | 2.6                  | 579.2             |
| 95°          | 21.6                  | 22.1                        | 23.8                        | 22.9                        | 15.1                        | 7.9                         | 4.1         | 9.5                  | 588.7             |
| 100°         | 38.0                  | 39.1                        | 40.0                        | 35.9                        | 24.8                        | 14.2                        | 9.4         | 16.0                 | 604.7             |
| 105°         | 54.7                  | 56.0                        | 55.9                        | 49.2                        | 34.1                        | 21.4                        | 15.7        | 22.2                 | 626.9             |
| 110°         | 74.8                  | 75.5                        | 71.9                        | 60.8                        | 43.8                        | 28.8                        | 22.2        | 28.3                 | 655.2             |
| 115°         | 92.7                  | 92.3                        | 86.1                        | 71.6                        | 53.1                        | 36.3                        | 29.5        | 33.2                 | 688.4             |
| 120°         | 108.0                 | 106.6                       | 98.3                        | 80.7                        | 62.0                        | 43.6                        | 36.5        | 36.7                 | 725.0             |
| 125°         | 119.6                 | 116.6                       | 106.6                       | 89.4                        | 69.8                        | 50.5                        | 44.0        | 38.5                 | 763.5             |
| 130°         | 125.1                 | 122.5                       | 111.1                       | 94.7                        | 75.6                        | 57.5                        | 51.4        | 38.5                 | 802.0             |
| 135°         | 126.1                 | 123.5                       | 112.8                       | 98.1                        | 79.9                        | 63.9                        | 58.8        | 36.9                 | 838.9             |
| 140°         | 124.1                 | 122.0                       | 113.0                       | 100.2                       | 83.2                        | 69.8                        | 66.5        | 34.3                 | 873.1             |
| 145°         | 121.3                 | 120.0                       | 112.4                       | 100.8                       | 86.1                        | 75.2                        | 72.7        | 31.0                 | 904.1             |
| 150°         | 117.8                 | 117.1                       | 110.2                       | 99.7                        | 88.4                        | 80.4                        | 78.4        | 27.1                 | 931.3             |
| 155°         | 113.3                 | 112.8                       | 106.2                       | 98.4                        | 90.0                        | 85.0                        | 83.4        | 22.8                 | 954.1             |
| 160°         | 107.2                 | 106.9                       | 101.9                       | 96.9                        | 91.4                        | 88.5                        | 88.0        | 18.2                 | 972.3             |
| 165°         | 101.6                 | 101.0                       | 98.5                        | 95.2                        | 92.8                        | 91.2                        | 91.2        | 13.6                 | 985.9             |
| 170°         | 97.5                  | 97.0                        | 96.2                        | 94.8                        | 93.7                        | 93.4                        | 93.4        | 9.1                  | 994.9             |
| 175°         | 94.9                  | 94.8                        | 94.2                        | 94.0                        | 94.0                        | 94.0                        | 94.0        | 4.5                  | 999.4             |
| 180°         | 94.2                  | 94.2                        | 94.2                        | 94.2                        | 94.2                        | 94.2                        | 94.2        | 0.6                  | 1000.0            |

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|                       |     |                                                |      |      |      |      |                                       |      |                       |      |
|-----------------------|-----|------------------------------------------------|------|------|------|------|---------------------------------------|------|-----------------------|------|
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| UGR-Tabelle           |     | Standardraum                                   |      |      |      |      |                                       |      | siteco                |      |
| 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  | 18,5                                           | 19,6 | 19,3 | 20,4 | 21,5 | 18,7                                  | 19,7 | 19,5                  | 20,6 |
|                       | 3H  | 19,9                                           | 20,8 | 20,8 | 21,7 | 22,8 | 20,2                                  | 21,2 | 21,1                  | 22,0 |
|                       | 4H  | 20,4                                           | 21,3 | 21,3 | 22,1 | 23,3 | 20,8                                  | 21,7 | 21,7                  | 22,6 |
|                       | 6H  | 20,6                                           | 21,4 | 21,5 | 22,3 | 23,5 | 21,1                                  | 21,9 | 22,0                  | 22,8 |
|                       | 8H  | 20,6                                           | 21,4 | 21,5 | 22,3 | 23,5 | 21,1                                  | 21,9 | 22,0                  | 22,8 |
|                       | 12H | 20,6                                           | 21,3 | 21,5 | 22,2 | 23,4 | 21,2                                  | 21,9 | 22,1                  | 22,8 |
| 4H                    | 2H  | 19,1                                           | 20,0 | 20,0 | 20,9 | 22,0 | 19,2                                  | 20,1 | 20,1                  | 20,9 |
|                       | 3H  | 20,7                                           | 21,4 | 21,6 | 22,3 | 23,5 | 20,9                                  | 21,6 | 21,8                  | 22,5 |
|                       | 4H  | 21,3                                           | 21,9 | 22,2 | 22,8 | 24,0 | 21,6                                  | 22,3 | 22,5                  | 23,2 |
|                       | 6H  | 21,6                                           | 22,1 | 22,5 | 23,1 | 24,3 | 22,1                                  | 22,6 | 23,0                  | 23,6 |
|                       | 8H  | 21,7                                           | 22,2 | 22,6 | 23,1 | 24,3 | 22,2                                  | 22,7 | 23,1                  | 23,6 |
|                       | 12H | 21,6                                           | 22,1 | 22,6 | 23,0 | 24,3 | 22,2                                  | 22,7 | 23,2                  | 23,6 |
| 8H                    | 4H  | 21,4                                           | 22,0 | 22,4 | 22,9 | 24,1 | 21,7                                  | 22,2 | 22,7                  | 23,2 |
|                       | 6H  | 21,9                                           | 22,3 | 22,9 | 23,3 | 24,5 | 22,3                                  | 22,7 | 23,3                  | 23,7 |
|                       | 8H  | 22,0                                           | 22,4 | 23,0 | 23,4 | 24,6 | 22,5                                  | 22,9 | 23,5                  | 23,9 |
|                       | 12H | 22,0                                           | 22,3 | 23,0 | 23,3 | 24,6 | 22,6                                  | 22,9 | 23,6                  | 23,9 |
| 12H                   | 4H  | 21,4                                           | 21,8 | 22,4 | 22,8 | 24,1 | 21,7                                  | 22,1 | 22,6                  | 23,1 |
|                       | 6H  | 21,9                                           | 22,3 | 22,9 | 23,2 | 24,5 | 22,3                                  | 22,6 | 23,3                  | 23,6 |
|                       | 8H  | 22,0                                           | 22,3 | 23,0 | 23,3 | 24,6 | 22,5                                  | 22,8 | 23,5                  | 23,8 |

| Leuchtdichten-Tabelle |                       | Max. für $\gamma \geq 65^\circ$ |                             | Lichttechnische<br>Abmessungen in mm: |                             | L = 1500<br>B = 50          |             |
|-----------------------|-----------------------|---------------------------------|-----------------------------|---------------------------------------|-----------------------------|-----------------------------|-------------|
| C-<br>Ebenen          | 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° |
| $\gamma$              | Leuchtdichte in cd/m² |                                 |                             |                                       |                             |                             |             |
| 45°                   | 13056.9               | 13064.8                         | 13089.5                     | 13091.1                               | 13149.4                     | 13184.0                     | 13358.8     |
| 50°                   | 12684.2               | 12780.7                         | 12817.0                     | 12871.3                               | 12990.5                     | 13013.1                     | 13094.5     |
| 55°                   | 12454.4               | 12468.3                         | 12543.2                     | 12605.7                               | 12721.9                     | 12722.9                     | 12839.1     |
| 60°                   | 11975.5               | 12023.3                         | 12093.0                     | 12140.8                               | 12334.0                     | 12350.5                     | 12522.3     |
| 65°                   | 11373.7               | 11487.6                         | 11620.0                     | 11774.2                               | 11887.0                     | 12006.4                     | 12005.7     |
| 70°                   | 10439.1               | 10635.5                         | 10743.7                     | 11017.5                               | 11233.4                     | 11371.9                     | 11444.2     |
| 75°                   | 9099.0                | 9314.4                          | 9464.8                      | 9792.2                                | 10122.5                     | 10385.5                     | 10454.7     |
| 80°                   | 7119.8                | 7256.2                          | 7506.2                      | 7831.2                                | 8302.6                      | 8656.9                      | 8762.5      |
| 85°                   | 4582.2                | 4744.5                          | 5001.3                      | 5371.6                                | 5850.7                      | 6349.4                      | 6571.6      |

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|                                                                                                                                 |                                                              |                                     |
|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------|
| <b>Familie</b><br><b>Silica® 21</b>                                                                                             | <b>Bestell-Nr.: 51MX30TBT5W</b><br><b>EAN: 4058352685303</b> | <b>LP-Nummer</b><br><b>59412_38</b> |
| <b>Leuchtdichten in cd/m²</b> <div> <div>γ 65°</div> <div>γ 70°</div> <div>γ 75°</div> <div>γ 80°</div> <div>γ 85°</div> </div> |                                                              | <b>sit</b> <b>eco</b>               |

