

## Lichttechnischer Prüfbefund

**Familie**  
**Silica® 21 Floor**

**Bestell-Nr.: 51MX52DA3ZM00892XX**  
**EAN: 4069025333698**

**LP-Nummer**  
**59648\_8**



**Ausführung** Stehleuchte, Reflektor, schwarz, indirekt-/ direkt strahlend, breit strahlend, mit Präsenz- und Tageslichtsensor

**Bestückung** LED 3000 K | CRI ≥ 80

**Betriebsgerät** EVG-DALI

**Einstellung** indiv. Einstellung: nur Indirektanteil in Betrieb

**Bemessungswerte** Nettolichtstrom = 10000 lm  
Systemleistung = 64.1 W  
Lichtausbeute = 156 lm/W

**Seriendokumentation**  
**09.04.2025**

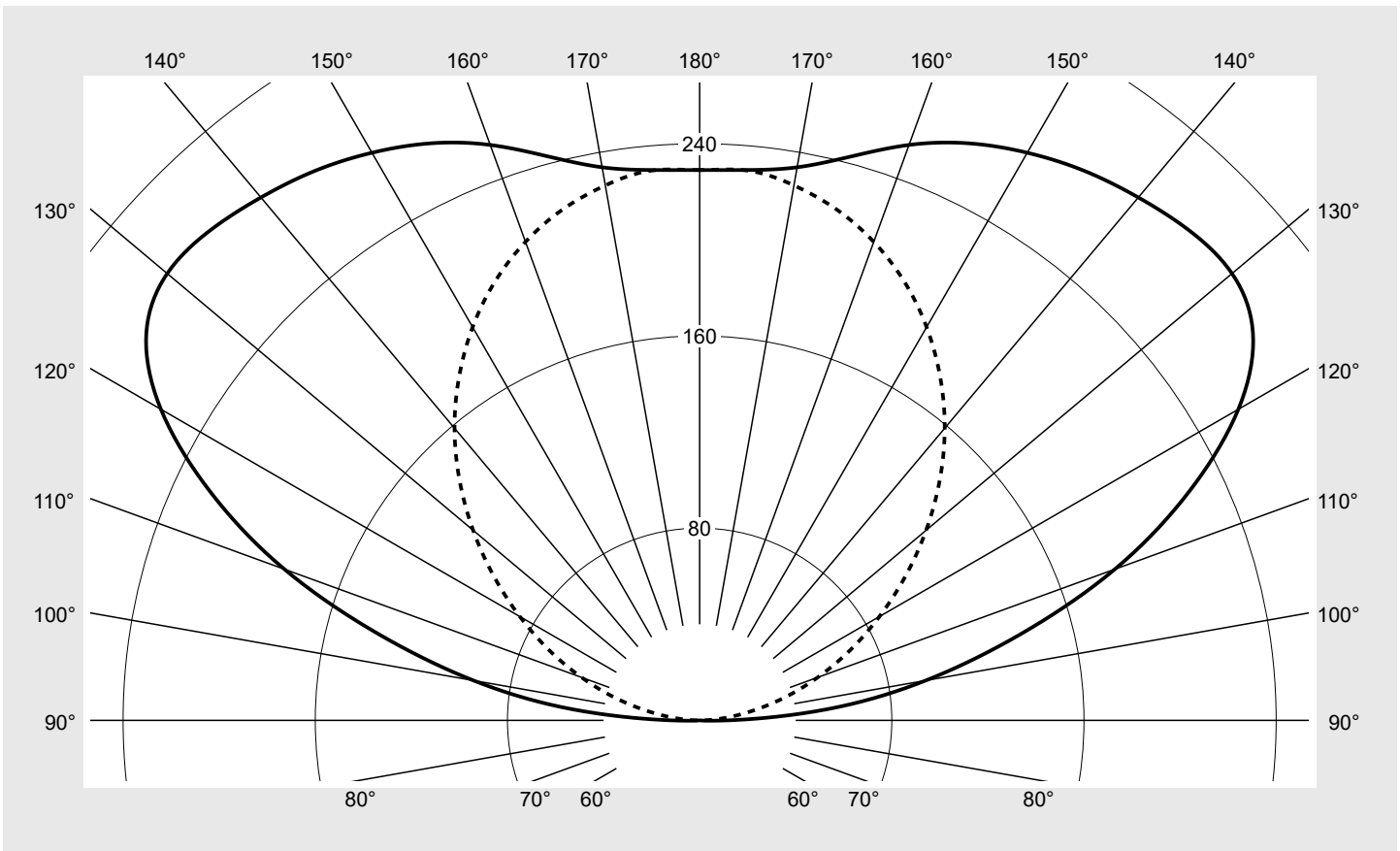
**siteco**

**Lichtstärke in cd/klm**

**C180-0**

**C270-90**

**Imax: 289 cd/klm**



**Klassifizierungen**

DIN 5040 E 1 2  
CIE N1=0 N2=0 N3=0  
N4=0 N5=100

**Leuchtenbetriebswirkungsgrade**

$\eta_{LB}$  100,0%  
 $\phi_u$  0,3%  
 $\phi_o$  99,7%

**Messbedingungen**

DIN EN 13032 und DIN 5032

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|   |   |                                    |
|---|---|------------------------------------|
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| <b>Wertetabelle Lichtstärkemessung</b>    |   | <b>Maximale Lichtstärke</b>        |
|   |   | <b>siteco</b>                      |

| 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            |            |                             |                             |                             |                             |                             |             |          |                   |
| 0°           | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 5°           | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 10°          | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 15°          | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 20°          | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 25°          | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 30°          | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 35°          | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 40°          | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 45°          | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 50°          | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 55°          | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 60°          | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 65°          | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 70°          | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 75°          | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 80°          | 0.0        | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0      | 0.0               |
| 85°          | 0.9        | 0.9                         | 0.9                         | 0.8                         | 0.7                         | 0.7                         | 0.7         | 0.4      | 0.4               |
| 90°          | 11.5       | 11.2                        | 11.8                        | 11.6                        | 6.9                         | 2.4                         | 0.9         | 4.6      | 5.0               |
| 95°          | 53.3       | 54.6                        | 58.7                        | 55.5                        | 35.6                        | 18.2                        | 9.4         | 23.1     | 28.1              |
| 100°         | 95.6       | 98.1                        | 99.0                        | 86.8                        | 58.3                        | 33.0                        | 21.6        | 39.0     | 67.1              |
| 105°         | 138.1      | 140.4                       | 137.2                       | 117.3                       | 80.1                        | 49.7                        | 36.5        | 54.0     | 121.1             |
| 110°         | 184.0      | 185.7                       | 173.9                       | 143.9                       | 103.1                       | 67.2                        | 52.3        | 68.0     | 189.1             |
| 115°         | 224.6      | 223.0                       | 205.9                       | 169.1                       | 125.1                       | 85.0                        | 69.1        | 79.1     | 268.2             |
| 120°         | 259.0      | 254.8                       | 232.1                       | 190.2                       | 145.4                       | 102.1                       | 86.4        | 86.8     | 355.0             |
| 125°         | 281.2      | 275.1                       | 248.8                       | 207.4                       | 162.0                       | 118.7                       | 104.6       | 90.2     | 445.2             |
| 130°         | 289.3      | 283.0                       | 256.4                       | 219.1                       | 175.3                       | 134.9                       | 123.1       | 89.2     | 534.4             |
| 135°         | 288.3      | 283.0                       | 259.3                       | 227.1                       | 186.9                       | 150.6                       | 141.4       | 85.4     | 619.8             |
| 140°         | 284.1      | 280.3                       | 260.5                       | 231.9                       | 196.2                       | 165.7                       | 158.7       | 79.6     | 699.4             |
| 145°         | 279.2      | 276.5                       | 259.8                       | 234.5                       | 203.5                       | 179.7                       | 174.6       | 72.4     | 771.8             |
| 150°         | 272.8      | 270.9                       | 256.5                       | 235.2                       | 209.8                       | 192.5                       | 189.0       | 63.8     | 835.5             |
| 155°         | 265.0      | 263.6                       | 251.0                       | 233.7                       | 215.0                       | 203.7                       | 201.5       | 54.1     | 889.6             |
| 160°         | 254.9      | 254.0                       | 243.6                       | 231.0                       | 219.4                       | 213.1                       | 211.9       | 43.6     | 933.2             |
| 165°         | 242.9      | 242.8                       | 235.7                       | 229.0                       | 223.3                       | 220.4                       | 220.2       | 32.7     | 965.9             |
| 170°         | 233.7      | 234.5                       | 230.6                       | 228.3                       | 226.5                       | 225.7                       | 226.1       | 21.8     | 987.7             |
| 175°         | 229.9      | 230.9                       | 228.6                       | 228.5                       | 228.4                       | 228.9                       | 229.7       | 10.9     | 998.6             |
| 180°         | 229.0      | 229.0                       | 229.0                       | 229.0                       | 229.0                       | 229.0                       | 229.0       | 1.4      | 1000.0            |

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| <b>UGR-Tabelle</b>                 | <b>Standardraum</b>   | <b>sITeco</b>               |

Die UGR-Formel ist für diese Leuchtentype nicht anwendbar, siehe LiTG Publikation 20:  
 "Das UGR - Verfahren zur Bewertung der Direktblendung der künstlichen Beleuchtung in Innenräumen"

|                              |   |   |                                  |
|------------------------------|---|---|----------------------------------|
| <b>Leuchtdichten-Tabelle</b> | <b>Max. für <math>\gamma \geq 65^\circ</math></b> | <b>Lichttechnische Abmessungen in mm:</b> | <b>L = 1176</b><br><b>B = 49</b> |
|------------------------------|---|---|----------------------------------|

| C-<br>Ebenen | $\gamma$ | 0°                                | 15°    | 30°    | 45°    | 60°    | 75°    | 90°    |
|--------------|----------|-----------------------------------|--------|--------|--------|--------|--------|--------|
|              |          | 180°                              | 165°   | 150°   | 135°   | 120°   | 105°   | 270°   |
|              |          | 195°                              | 210°   | 225°   | 240°   | 255°   | 285°   |        |
|              |          | 345°                              | 330°   | 315°   | 300°   | 285°   |        |        |
|              |          | Leuchtdichte in cd/m <sup>2</sup> |        |        |        |        |        |        |
| 45°          |          | 0.0                               | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 50°          |          | 0.0                               | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 55°          |          | 0.0                               | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 60°          |          | 0.0                               | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 65°          |          | 0.0                               | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 70°          |          | 0.0                               | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 75°          |          | 0.0                               | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 80°          |          | 0.0                               | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°          |          | 1847.8                            | 1794.0 | 1704.4 | 1545.1 | 1403.7 | 1314.1 | 1314.1 |

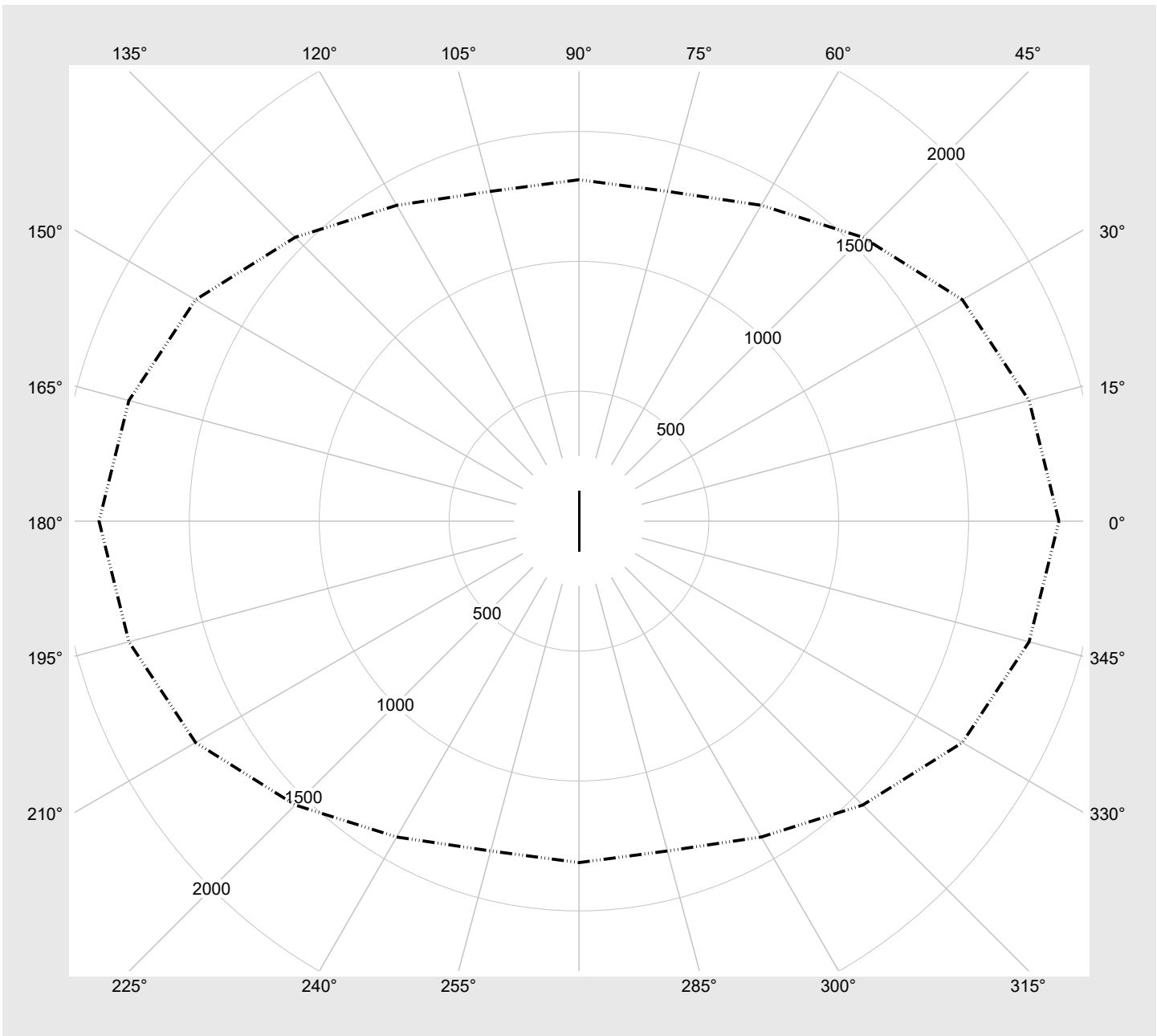
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**Leuchtdichten in cd/m<sup>2</sup>**

|              |              |              |              |              |
|--------------|--------------|--------------|--------------|--------------|
| $\gamma$ 65° | $\gamma$ 70° | $\gamma$ 75° | $\gamma$ 80° | $\gamma$ 85° |
|--------------|--------------|--------------|--------------|--------------|

**siteco**



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|                           |                           |               |
|---------------------------|---------------------------|---------------|
| <b>Dimmstufen-Tabelle</b> | Umgebungstemperatur: 25°C | <b>sITeco</b> |
|---------------------------|---------------------------|---------------|

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100            | 254              | 254                     | 10000           | 64.1               |
| 95             | 240              | 252                     | 9490            | 60.7               |
| 90             | 227              | 250                     | 9010            | 57.3               |
| 85             | 213              | 248                     | 8490            | 53.8               |
| 80             | 200              | 245                     | 8002            | 50.5               |
| 75             | 187              | 243                     | 7510            | 47.4               |
| 70             | 174              | 240                     | 7015            | 44.1               |
| 65             | 161              | 237                     | 6515            | 40.9               |
| 60             | 148              | 234                     | 6010            | 37.7               |
| 55             | 135              | 231                     | 5501            | 34.5               |
| 50             | 122              | 227                     | 4988            | 31.3               |
| 45             | 110              | 223                     | 4512            | 28.4               |
| 40             | 97               | 219                     | 3989            | 25.4               |
| 35             | 85               | 214                     | 3505            | 22.5               |
| 30             | 73               | 208                     | 3017            | 19.6               |
| 25             | 60               | 201                     | 2483            | 16.5               |
| 20             | 48               | 193                     | 1990            | 13.9               |
| 15             | 36               | 182                     | 1493            | 11.2               |
| 10             | 24               | 168                     | 993             | 8.4                |
| 5              | 12               | 142                     | 488             | 5.2                |
| 2              | 4                | 102                     | 151             | 3.2                |