

Lichttechnischer Prüfbefund

Familie
Silica® 21

Bestell-Nr.: 51MX23DA34WB
EAN: 4058352898918

LP-Nummer
59330_237



Ausführung Anbauleuchte, homogen leuchtend, Prismenabdeckung, direkt strahlend, extrem breit strahlend, $UGR \leq 19$ ($L65 \leq 3000 \text{cd/m}^2$)

Bestückung LED 3000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte Nettolichtstrom = 3280 lm
Systemleistung = 24.1 W
Lichtausbeute = 136.1 lm/W

Seriendokumentation
02.08.2023

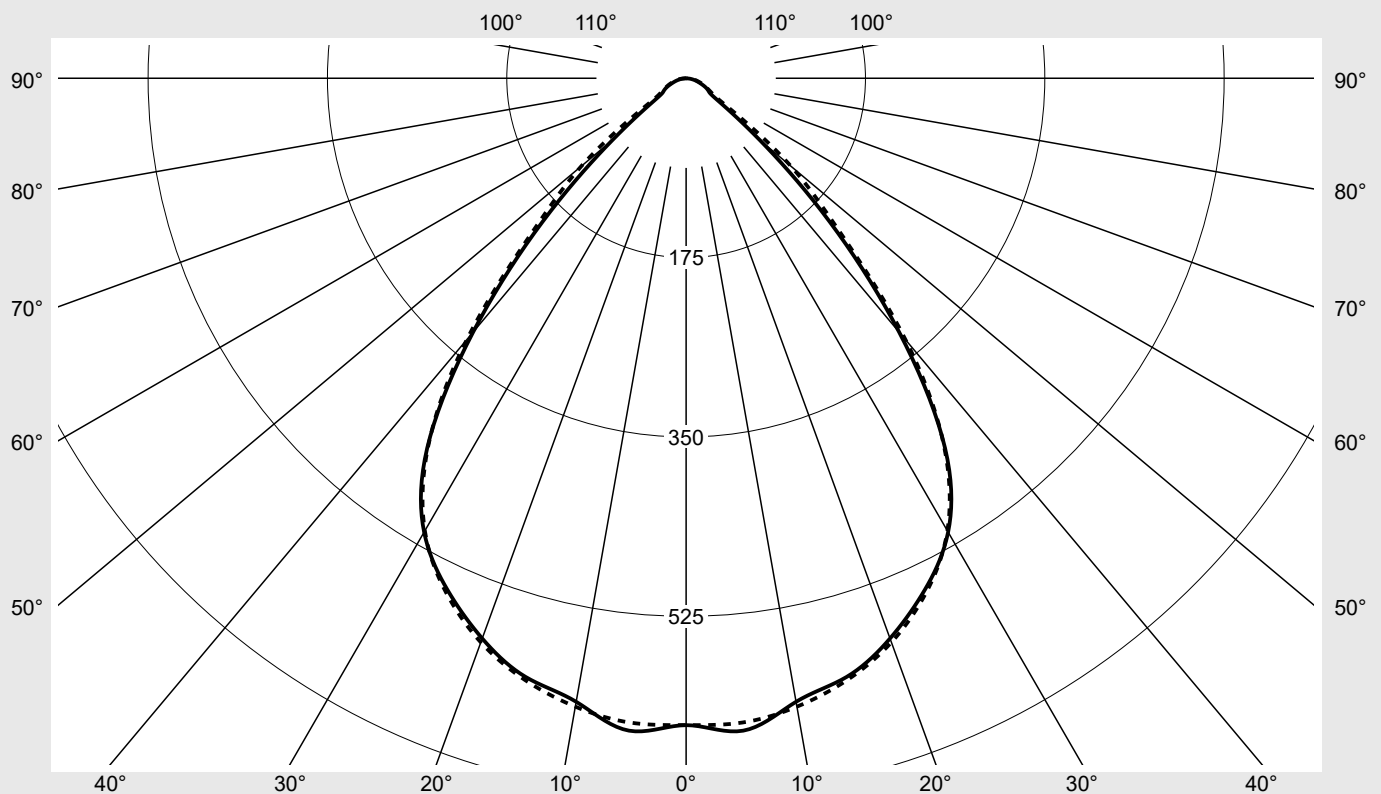
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 642 cd/klm



Klassifizierungen

DIN 5040 A 6 0
CIE N1=78 N2=96 N3=99
N4=100 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 100,0%
 ϕ_o 0,0%

Messbedingungen

DIN EN 13032 und DIN 5032

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| Wertetabelle Lichtstärkemessung | Maximale Lichtstärke | sITeco |
|--|-----------------------------|---------------|

| C- Ebenen | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-Zone | Summe Phi-Zone |
|-----------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|----------------------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | |
| Lichtstärke in cd/klm | | | | | | | | Lichtstrom in lm/klm | |
| γ | | | | | | | | | |
| 0° | 631.2 | 631.2 | 631.2 | 631.2 | 631.2 | 631.2 | 631.2 | 3.8 | 3.8 |
| 5° | 639.0 | 636.9 | 635.8 | 640.8 | 642.0 | 634.8 | 631.1 | 30.5 | 34.2 |
| 10° | 617.8 | 615.8 | 612.2 | 616.7 | 624.6 | 629.4 | 622.7 | 59.0 | 93.2 |
| 15° | 604.8 | 603.1 | 597.6 | 597.0 | 601.6 | 607.9 | 607.8 | 85.4 | 178.7 |
| 20° | 581.7 | 581.2 | 575.6 | 575.6 | 576.2 | 579.7 | 585.7 | 108.5 | 287.2 |
| 25° | 550.9 | 551.4 | 546.3 | 545.8 | 546.2 | 547.0 | 553.9 | 127.0 | 414.1 |
| 30° | 511.3 | 512.1 | 506.5 | 506.8 | 506.5 | 506.0 | 509.9 | 139.2 | 553.4 |
| 35° | 440.5 | 440.8 | 437.0 | 438.8 | 441.2 | 438.6 | 439.0 | 138.1 | 691.5 |
| 40° | 323.4 | 324.8 | 326.1 | 329.4 | 332.6 | 332.8 | 333.0 | 115.9 | 807.4 |
| 45° | 198.4 | 199.0 | 200.7 | 203.5 | 206.3 | 209.2 | 212.1 | 79.1 | 886.5 |
| 50° | 93.9 | 108.5 | 122.0 | 111.2 | 100.2 | 119.3 | 133.6 | 47.2 | 933.7 |
| 55° | 37.7 | 51.0 | 48.2 | 55.0 | 41.5 | 57.5 | 53.4 | 22.4 | 956.1 |
| 60° | 25.5 | 26.5 | 28.2 | 26.2 | 26.1 | 27.8 | 29.0 | 12.8 | 968.9 |
| 65° | 21.0 | 20.8 | 21.7 | 21.1 | 22.1 | 22.0 | 22.3 | 10.7 | 979.6 |
| 70° | 15.2 | 15.5 | 16.2 | 16.1 | 16.4 | 16.6 | 17.4 | 8.3 | 987.9 |
| 75° | 10.6 | 11.0 | 12.1 | 11.5 | 11.8 | 12.4 | 12.4 | 6.2 | 994.1 |
| 80° | 6.4 | 6.8 | 7.5 | 8.1 | 7.5 | 8.4 | 8.5 | 4.1 | 998.3 |
| 85° | 2.4 | 2.5 | 2.6 | 3.2 | 3.5 | 4.1 | 4.3 | 1.7 | 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-Tabelle | | Standardraum | | | | | | | | | |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| | | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| Raumabmessungen | | | | | | | | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 18,4 | 19,8 | 18,8 | 20,1 | 20,4 | 18,6 | 20,0 | 19,0 | 20,3 | 20,6 |
| | 3H | 18,5 | 19,7 | 18,9 | 20,0 | 20,4 | 18,7 | 19,9 | 19,1 | 20,3 | 20,6 |
| | 4H | 18,5 | 19,7 | 18,9 | 20,0 | 20,4 | 18,8 | 19,9 | 19,2 | 20,3 | 20,6 |
| | 6H | 18,6 | 19,6 | 19,0 | 19,9 | 20,3 | 18,9 | 19,9 | 19,3 | 20,2 | 20,6 |
| | 8H | 18,6 | 19,5 | 19,1 | 19,9 | 20,3 | 19,0 | 19,9 | 19,4 | 20,2 | 20,6 |
| | 12H | 18,6 | 19,5 | 19,1 | 19,9 | 20,3 | 19,0 | 19,8 | 19,4 | 20,2 | 20,6 |
| 4H | 2H | 18,4 | 19,5 | 18,8 | 19,8 | 20,2 | 18,6 | 19,7 | 19,0 | 20,0 | 20,4 |
| | 3H | 18,5 | 19,4 | 18,9 | 19,8 | 20,2 | 18,7 | 19,7 | 19,2 | 20,0 | 20,5 |
| | 4H | 18,6 | 19,4 | 19,0 | 19,8 | 20,3 | 18,8 | 19,7 | 19,3 | 20,1 | 20,5 |
| | 6H | 18,7 | 19,4 | 19,1 | 19,8 | 20,3 | 19,0 | 19,7 | 19,4 | 20,1 | 20,6 |
| | 8H | 18,7 | 19,3 | 19,2 | 19,8 | 20,3 | 19,0 | 19,7 | 19,5 | 20,1 | 20,6 |
| | 12H | 18,7 | 19,3 | 19,2 | 19,7 | 20,2 | 19,1 | 19,7 | 19,6 | 20,1 | 20,6 |
| 8H | 4H | 18,6 | 19,2 | 19,1 | 19,7 | 20,2 | 18,8 | 19,5 | 19,3 | 19,9 | 20,4 |
| | 6H | 18,7 | 19,2 | 19,2 | 19,7 | 20,2 | 19,0 | 19,5 | 19,5 | 20,0 | 20,5 |
| | 8H | 18,8 | 19,2 | 19,3 | 19,7 | 20,2 | 19,1 | 19,6 | 19,6 | 20,1 | 20,6 |
| | 12H | 18,8 | 19,2 | 19,3 | 19,7 | 20,2 | 19,2 | 19,6 | 19,7 | 20,1 | 20,6 |
| 12H | 4H | 18,6 | 19,1 | 19,1 | 19,6 | 20,1 | 18,8 | 19,4 | 19,3 | 19,8 | 20,3 |
| | 6H | 18,7 | 19,2 | 19,3 | 19,7 | 20,2 | 19,0 | 19,5 | 19,5 | 20,0 | 20,5 |
| | 8H | 18,8 | 19,2 | 19,3 | 19,7 | 20,2 | 19,1 | 19,5 | 19,7 | 20,0 | 20,6 |

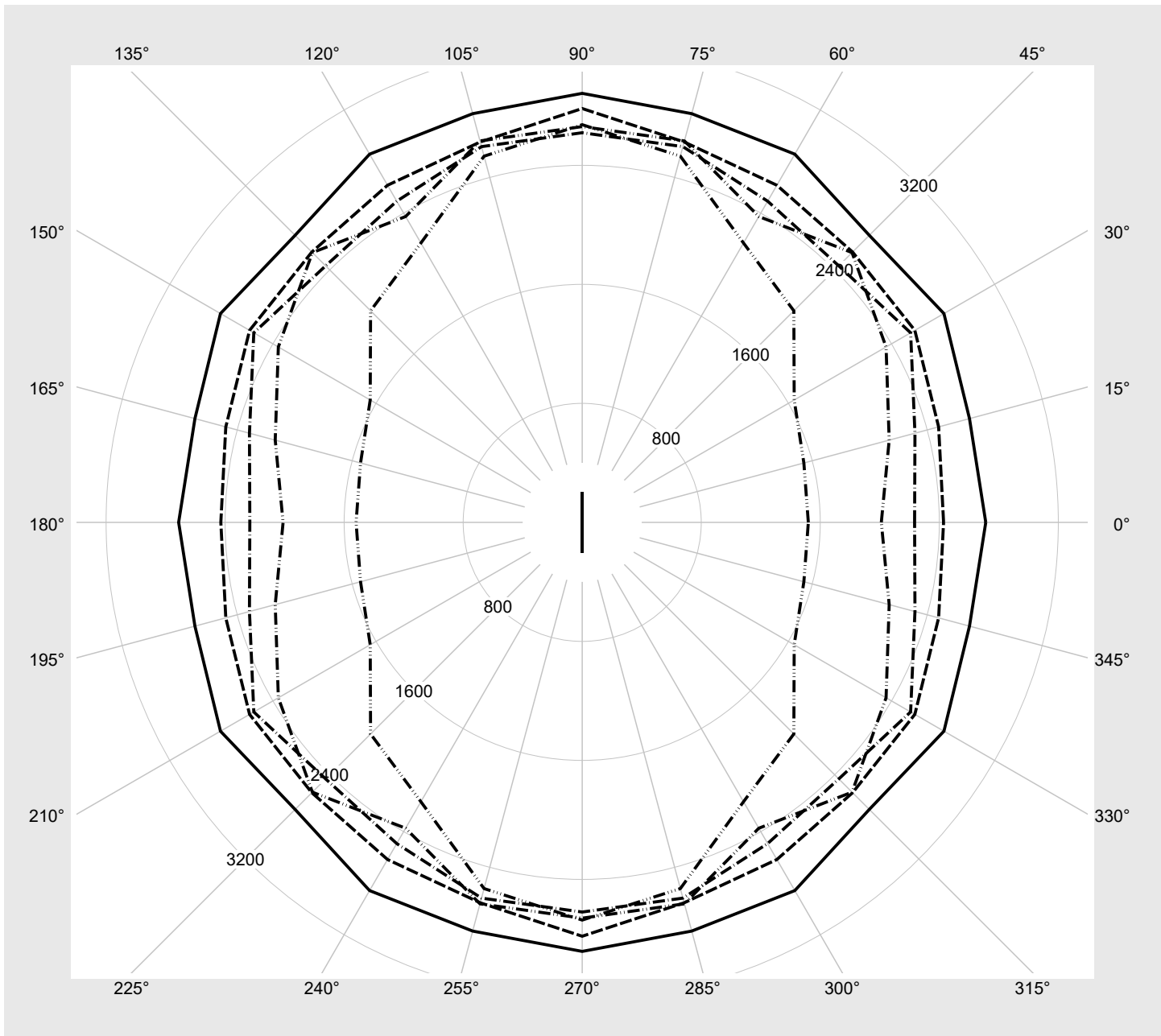
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| Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: L = 1200 B = 50 |
|--|--|

| C-Ebenen | γ | Leuchtdichte 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° | | 15337.1 | 15386.8 | 15516.8 | 15733.4 | 15947.7 | 16176.3 | 16396.2 |
| 50° | | 7985.6 | 9225.1 | 10377.4 | 9461.0 | 8525.0 | 10144.7 | 11360.6 |
| 55° | | 3593.5 | 4859.8 | 4595.5 | 5239.5 | 3952.2 | 5476.5 | 5093.4 |
| 60° | | 2786.7 | 2901.2 | 3078.1 | 2859.1 | 2851.3 | 3042.2 | 3168.5 |
| 65° | | 2712.4 | 2694.8 | 2807.3 | 2728.9 | 2858.0 | 2844.2 | 2883.9 |
| 70° | | 2428.8 | 2480.0 | 2581.5 | 2570.0 | 2616.8 | 2647.5 | 2781.9 |
| 75° | | 2234.0 | 2315.3 | 2548.7 | 2438.7 | 2493.0 | 2614.9 | 2619.3 |
| 80° | | 2010.4 | 2136.0 | 2358.3 | 2564.8 | 2374.0 | 2654.5 | 2660.5 |
| 85° | | 1519.8 | 1542.4 | 1645.2 | 2011.5 | 2168.3 | 2548.4 | 2673.3 |

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



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| Dimmstufen-Tabelle | Umgebungstemperatur: 25°C | sITeco |
|---------------------------|---------------------------|---------------|

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100 | 254 | 254 | 3280 | 24.1 |
| 95 | 241 | 252 | 3120 | 22.8 |
| 90 | 227 | 250 | 2948 | 21.4 |
| 85 | 214 | 248 | 2788 | 20.2 |
| 80 | 201 | 245 | 2626 | 19.0 |
| 75 | 188 | 243 | 2463 | 17.7 |
| 70 | 175 | 240 | 2299 | 16.5 |
| 65 | 162 | 238 | 2133 | 15.3 |
| 60 | 149 | 234 | 1967 | 14.1 |
| 55 | 136 | 231 | 1800 | 12.9 |
| 50 | 124 | 228 | 1644 | 11.8 |
| 45 | 111 | 224 | 1475 | 10.5 |
| 40 | 99 | 219 | 1318 | 9.5 |
| 35 | 86 | 214 | 1147 | 8.4 |
| 30 | 74 | 209 | 988 | 7.3 |
| 25 | 61 | 202 | 815 | 6.2 |
| 20 | 49 | 194 | 655 | 5.1 |
| 15 | 37 | 183 | 493 | 4.1 |
| 10 | 25 | 169 | 332 | 3.1 |
| 5 | 13 | 145 | 169 | 1.8 |
| 3 | 9 | 132 | 115 | 1.3 |