

Lichttechnischer Prüfbefund

Familie
Silica® 21

Bestell-Nr.: 51MX22DA34WB
EAN: 4058352896112

LP-Nummer
59266_149



Ausführung Anbauleuchte, Reflektor, schwarz, direkt strahlend, breit strahlend, UGR≤19 (L65≤1000cd/m²)

Bestückung LED 3000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte Nettolichtstrom = 4320 lm
Systemleistung = 27.4 W
Lichtausbeute = 157.7 lm/W

Seriendokumentation
02.08.2023

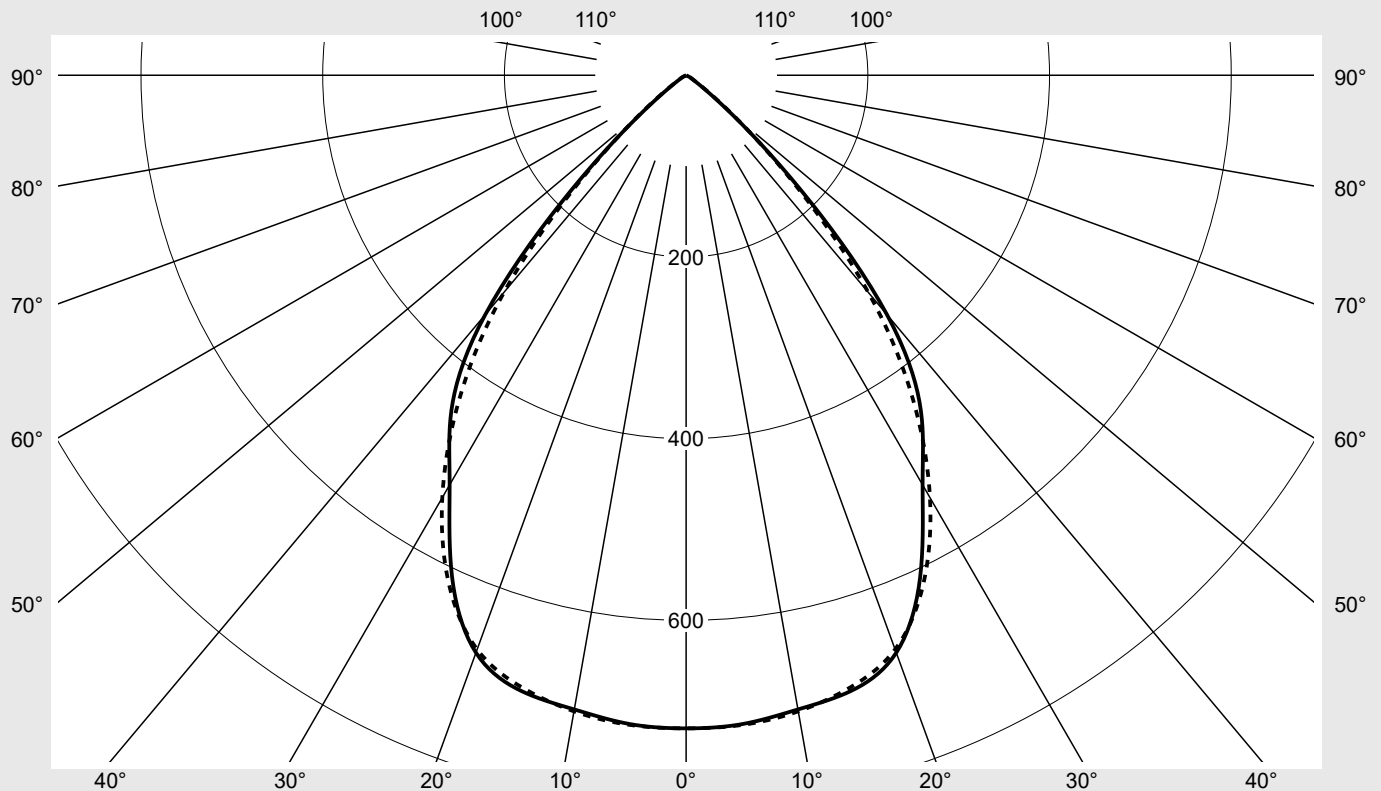
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 719 cd/klm



Klassifizierungen

DIN 5040 A 6 0
CIE N1=86 N2=100 N3=100
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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| | | |
|--|---|--------------------------------------|
| Familie Silica® 21 | Bestell-Nr.: 51MX22DA34WB EAN: 4058352896112 | LP-Nummer 59266_149 |
| 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 | |
| 0° | 718.8 | 718.8 | 718.8 | 718.8 | 718.8 | 718.8 | 718.8 | 4.3 | 4.3 |
| 5° | 716.8 | 715.7 | 712.2 | 716.2 | 717.8 | 715.2 | 717.7 | 34.2 | 38.5 |
| 10° | 708.8 | 709.0 | 703.3 | 708.6 | 709.9 | 707.6 | 710.9 | 67.4 | 105.9 |
| 15° | 701.5 | 704.3 | 697.3 | 698.3 | 698.8 | 696.7 | 697.6 | 99.2 | 205.1 |
| 20° | 676.3 | 682.5 | 681.1 | 681.0 | 677.6 | 673.2 | 672.5 | 127.2 | 332.2 |
| 25° | 609.5 | 618.9 | 627.5 | 636.4 | 634.5 | 625.9 | 617.8 | 145.0 | 477.3 |
| 30° | 520.6 | 528.9 | 533.1 | 542.9 | 550.7 | 541.7 | 536.8 | 147.4 | 624.6 |
| 35° | 450.5 | 455.7 | 444.2 | 436.3 | 445.0 | 443.0 | 435.2 | 139.8 | 764.4 |
| 40° | 343.9 | 350.9 | 343.2 | 332.9 | 329.4 | 321.5 | 312.0 | 117.8 | 882.2 |
| 45° | 178.2 | 185.2 | 190.8 | 192.2 | 186.9 | 176.3 | 167.1 | 71.3 | 953.5 |
| 50° | 59.7 | 64.4 | 73.8 | 78.7 | 75.2 | 68.1 | 63.7 | 29.5 | 983.0 |
| 55° | 15.6 | 18.5 | 24.7 | 31.2 | 26.2 | 20.2 | 17.4 | 10.3 | 993.3 |
| 60° | 6.1 | 6.8 | 9.1 | 12.2 | 9.8 | 7.7 | 7.0 | 4.1 | 997.4 |
| 65° | 2.1 | 2.4 | 3.4 | 4.3 | 3.8 | 3.0 | 2.8 | 1.6 | 999.0 |
| 70° | 1.4 | 1.4 | 1.0 | 1.0 | 1.2 | 1.5 | 1.5 | 0.7 | 999.7 |
| 75° | 0.3 | 0.4 | 0.3 | 0.4 | 0.4 | 0.5 | 0.4 | 0.2 | 999.9 |
| 80° | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.1 | 999.9 |
| 85° | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 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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| UGR-Tabelle | | Standardraum | | | | | | | | | |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| | | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| Raumabmessungen | | | | | | | | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 19,0 | 20,3 | 19,4 | 20,6 | 21,0 | 18,9 | 20,2 | 19,2 | 20,5 | 20,8 |
| | 3H | 18,9 | 20,0 | 19,3 | 20,4 | 20,7 | 18,7 | 19,9 | 19,1 | 20,2 | 20,6 |
| | 4H | 18,8 | 19,9 | 19,2 | 20,2 | 20,6 | 18,7 | 19,7 | 19,1 | 20,1 | 20,4 |
| | 6H | 18,8 | 19,7 | 19,2 | 20,1 | 20,5 | 18,6 | 19,5 | 19,0 | 19,9 | 20,3 |
| | 8H | 18,8 | 19,6 | 19,2 | 20,0 | 20,4 | 18,6 | 19,4 | 19,1 | 19,8 | 20,2 |
| | 12H | 18,8 | 19,5 | 19,2 | 19,9 | 20,3 | 18,6 | 19,4 | 19,0 | 19,7 | 20,2 |
| 4H | 2H | 18,9 | 19,9 | 19,3 | 20,2 | 20,6 | 18,7 | 19,7 | 19,1 | 20,1 | 20,4 |
| | 3H | 18,7 | 19,5 | 19,1 | 19,9 | 20,4 | 18,5 | 19,4 | 19,0 | 19,8 | 20,2 |
| | 4H | 18,6 | 19,4 | 19,1 | 19,8 | 20,2 | 18,4 | 19,2 | 18,9 | 19,6 | 20,0 |
| | 6H | 18,5 | 19,2 | 19,0 | 19,6 | 20,1 | 18,4 | 19,0 | 18,8 | 19,4 | 19,9 |
| | 8H | 18,5 | 19,1 | 19,0 | 19,5 | 20,0 | 18,3 | 18,9 | 18,8 | 19,3 | 19,8 |
| | 12H | 18,5 | 19,0 | 19,0 | 19,4 | 19,9 | 18,3 | 18,8 | 18,8 | 19,2 | 19,7 |
| 8H | 4H | 18,5 | 19,1 | 19,0 | 19,5 | 20,0 | 18,3 | 18,9 | 18,8 | 19,3 | 19,8 |
| | 6H | 18,4 | 18,8 | 18,9 | 19,3 | 19,8 | 18,2 | 18,7 | 18,7 | 19,2 | 19,7 |
| | 8H | 18,3 | 18,7 | 18,8 | 19,2 | 19,8 | 18,2 | 18,6 | 18,7 | 19,1 | 19,6 |
| | 12H | 18,3 | 18,6 | 18,8 | 19,1 | 19,7 | 18,1 | 18,5 | 18,7 | 19,0 | 19,5 |
| 12H | 4H | 18,5 | 19,0 | 19,0 | 19,4 | 19,9 | 18,3 | 18,8 | 18,8 | 19,2 | 19,7 |
| | 6H | 18,4 | 18,7 | 18,9 | 19,2 | 19,8 | 18,2 | 18,6 | 18,7 | 19,1 | 19,6 |
| | 8H | 18,3 | 18,6 | 18,8 | 19,1 | 19,7 | 18,1 | 18,5 | 18,7 | 19,0 | 19,5 |

| | | | |
|------------------------------|---------------------------------|------------------------------------|--------------------|
| Leuchtdichten-Tabelle | Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: | L = 1176 B = 49 |
|------------------------------|---------------------------------|------------------------------------|--------------------|

| 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° | | 18893.8 | 19639.4 | 20224.8 | 20378.7 | 19816.4 | 18686.5 | 17719.1 | |
| 50° | | 6967.4 | 7515.8 | 8602.9 | 9174.9 | 8765.7 | 7944.9 | 7434.7 | |
| 55° | | 2040.2 | 2416.2 | 3223.4 | 4082.0 | 3422.4 | 2643.9 | 2274.9 | |
| 60° | | 914.5 | 1022.3 | 1370.7 | 1828.8 | 1475.1 | 1154.2 | 1044.6 | |
| 65° | | 373.2 | 429.1 | 595.7 | 753.9 | 671.6 | 529.3 | 489.2 | |
| 70° | | 297.0 | 310.2 | 229.3 | 215.0 | 259.3 | 333.6 | 336.2 | |
| 75° | | 82.6 | 110.1 | 89.5 | 125.7 | 115.3 | 137.9 | 120.5 | |
| 80° | | 20.7 | 20.7 | 30.7 | 46.2 | 61.7 | 71.7 | 82.0 | |
| 85° | | 20.6 | 36.1 | 45.6 | 81.7 | 117.8 | 142.8 | 153.1 | |

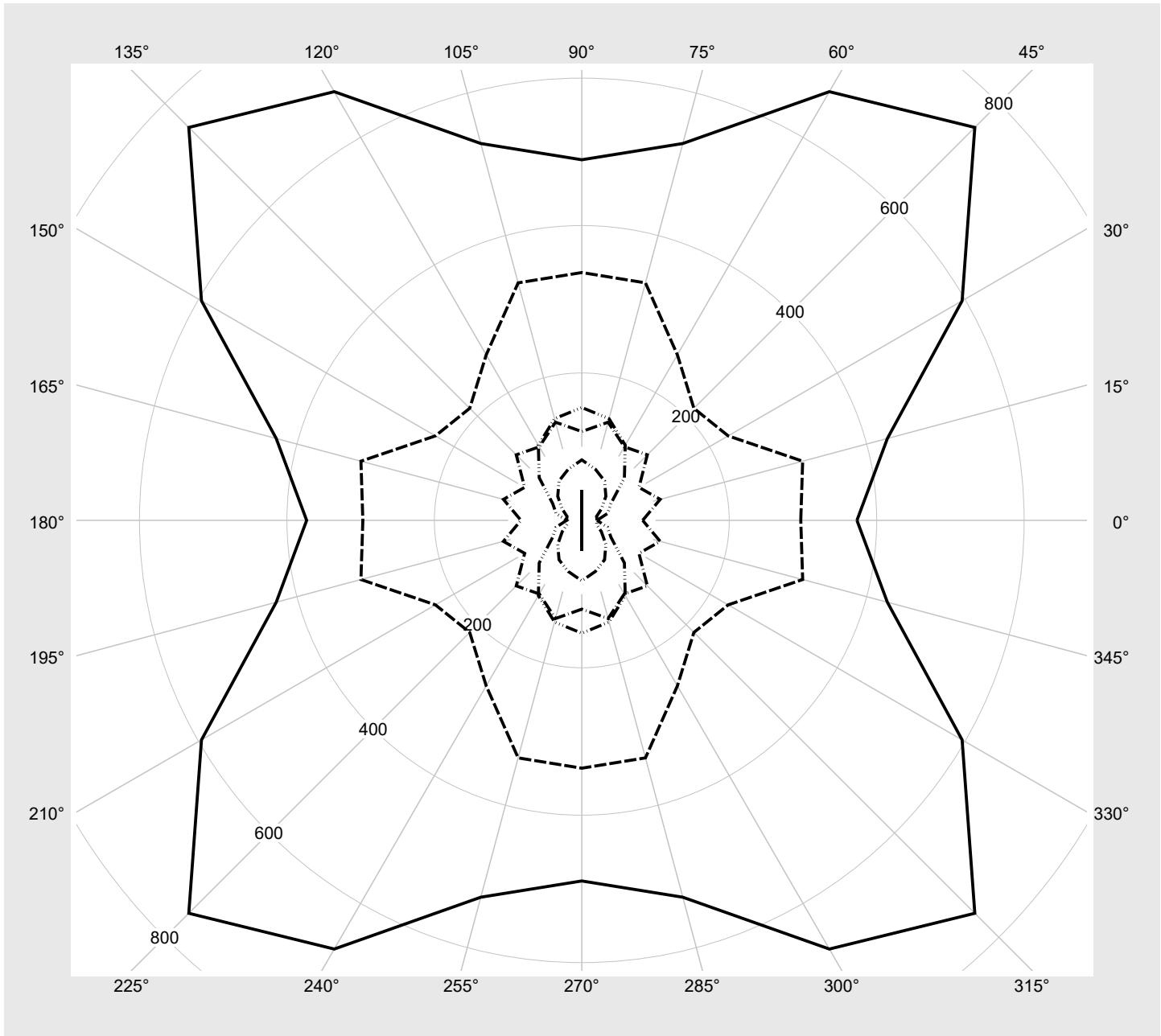
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Leuchtdichten in cd/m²

| | | | | |
|--------------|--------------|--------------|--------------|--------------|
| γ 65° | γ 70° | γ 75° | γ 80° | γ 85° |
|--------------|--------------|--------------|--------------|--------------|

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

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100 | 254 | 254 | 4320 | 27.4 |
| 95 | 240 | 252 | 4098 | 25.9 |
| 90 | 227 | 250 | 3889 | 24.5 |
| 85 | 214 | 248 | 3678 | 23.0 |
| 80 | 200 | 245 | 3449 | 21.5 |
| 75 | 187 | 243 | 3236 | 20.1 |
| 70 | 174 | 240 | 3021 | 18.7 |
| 65 | 161 | 237 | 2805 | 17.2 |
| 60 | 148 | 234 | 2585 | 15.9 |
| 55 | 136 | 231 | 2382 | 14.6 |
| 50 | 123 | 227 | 2160 | 13.3 |
| 45 | 110 | 223 | 1937 | 11.9 |
| 40 | 98 | 219 | 1730 | 10.6 |
| 35 | 86 | 214 | 1521 | 9.4 |
| 30 | 73 | 208 | 1293 | 8.1 |
| 25 | 61 | 202 | 1083 | 6.9 |
| 20 | 49 | 194 | 870 | 5.8 |
| 15 | 37 | 183 | 655 | 4.5 |
| 10 | 24 | 168 | 423 | 3.3 |
| 5 | 12 | 142 | 207 | 1.9 |
| 3 | 8 | 127 | 135 | 1.3 |