

Lichttechnischer Prüfbefund

Familie
Silica® 21

Bestell-Nr.: 51MX32DA37BB
EAN: 4058352886830

LP-Nummer
59279_103



Ausführung Pendelleuchte, Reflektor, schwarz, direkt-/ indirekt strahlend, breit strahlend, UGR≤16 (L65≤1000cd/m²)

Bestückung LED 3000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte Nettolichtstrom = 7290 lm
Systemleistung = 46.8 W
Lichtausbeute = 155.8 lm/W

Seriendokumentation
02.08.2023

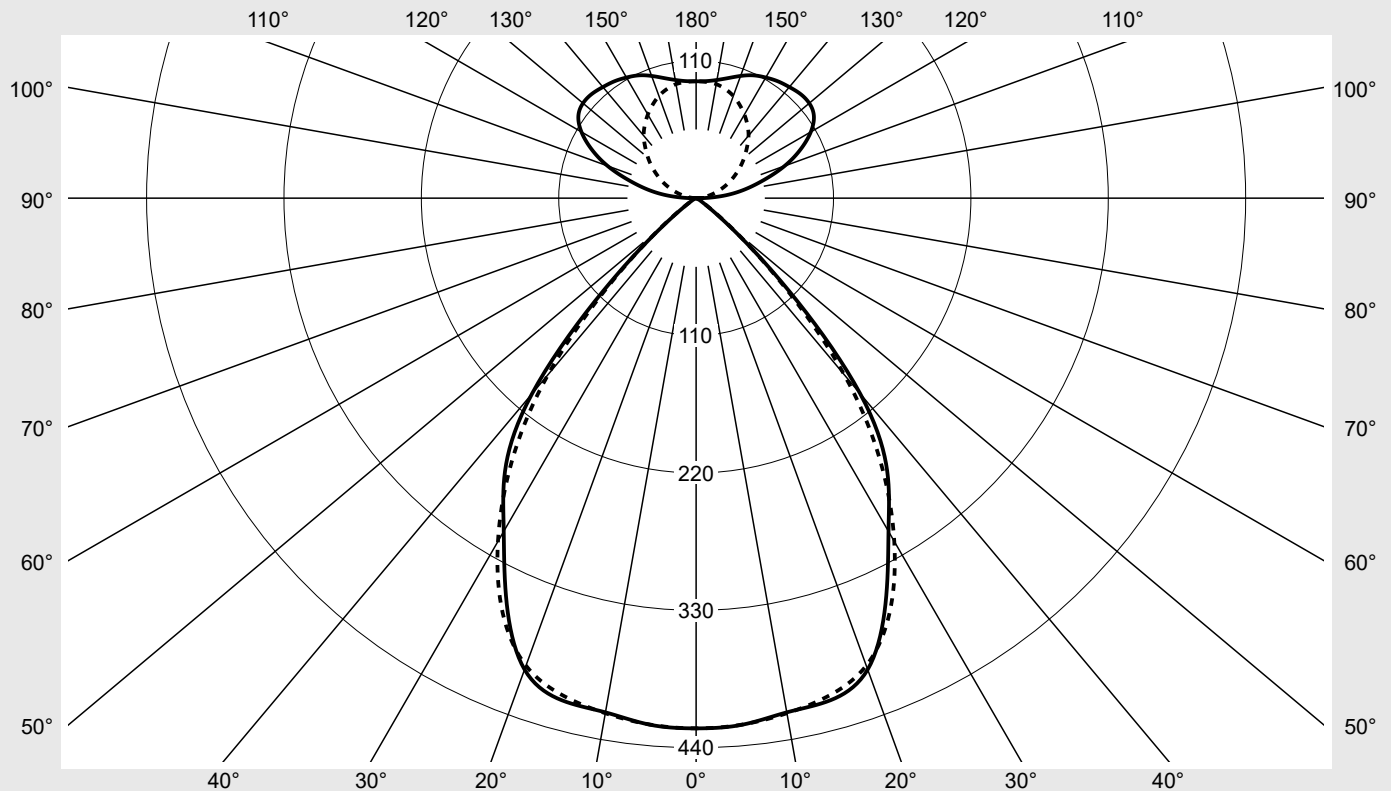
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 425 cd/klm



Klassifizierungen

DIN 5040 C 6 2
CIE N1=86 N2=99 N3=100
N4=59 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 59,2%
 ϕ_o 40,8%

Messbedingungen

DIN EN 13032 und DIN 5032

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| | | |
|--|---|--------------------------------------|
| Familie Silica® 21 | Bestell-Nr.: 51MX32DA37BB EAN: 4058352886830 | LP-Nummer 59279_103 |
| 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° | | | |
| γ | | | | | | | | | |
| Lichtstärke in cd/klm | | | | | | | | | |
| Lichtstrom in lm/klm | | | | | | | | | |
| 0° | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 424.5 | 2.5 | 2.5 |
| 5° | 423.2 | 423.7 | 423.1 | 423.1 | 423.3 | 423.7 | 423.1 | 20.2 | 22.8 |
| 10° | 418.0 | 417.2 | 417.3 | 418.4 | 419.3 | 417.7 | 418.7 | 39.8 | 62.6 |
| 15° | 416.1 | 416.5 | 413.5 | 413.8 | 413.5 | 412.7 | 412.2 | 58.7 | 121.3 |
| 20° | 401.6 | 404.7 | 402.8 | 404.0 | 399.5 | 397.4 | 398.3 | 75.3 | 196.5 |
| 25° | 358.7 | 364.9 | 370.6 | 376.3 | 375.4 | 369.4 | 366.5 | 85.7 | 282.2 |
| 30° | 308.1 | 312.2 | 314.3 | 321.5 | 326.7 | 320.5 | 317.3 | 87.1 | 369.4 |
| 35° | 266.7 | 269.2 | 262.0 | 257.7 | 262.2 | 261.4 | 257.3 | 82.5 | 451.9 |
| 40° | 204.3 | 207.3 | 203.4 | 196.7 | 194.2 | 189.2 | 184.5 | 69.6 | 521.5 |
| 45° | 105.6 | 109.2 | 112.9 | 113.5 | 110.1 | 103.6 | 98.8 | 42.1 | 563.6 |
| 50° | 35.1 | 38.0 | 43.5 | 46.6 | 44.5 | 40.2 | 37.5 | 17.4 | 581.0 |
| 55° | 9.3 | 10.9 | 14.6 | 18.5 | 15.5 | 12.0 | 10.3 | 6.1 | 587.1 |
| 60° | 3.6 | 4.0 | 5.4 | 7.2 | 5.8 | 4.5 | 4.1 | 2.4 | 589.5 |
| 65° | 1.2 | 1.4 | 2.0 | 2.5 | 2.2 | 1.8 | 1.6 | 0.9 | 590.5 |
| 70° | 0.8 | 0.8 | 0.6 | 0.6 | 0.7 | 0.9 | 0.9 | 0.4 | 590.8 |
| 75° | 0.2 | 0.2 | 0.2 | 0.3 | 0.2 | 0.3 | 0.2 | 0.1 | 591.0 |
| 80° | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 591.0 |
| 85° | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.2 | 591.2 |
| 90° | 4.7 | 4.5 | 4.8 | 4.8 | 2.8 | 1.0 | 0.4 | 1.9 | 593.1 |
| 95° | 21.9 | 22.4 | 24.0 | 22.7 | 14.5 | 7.5 | 3.9 | 9.5 | 602.5 |
| 100° | 39.1 | 40.2 | 40.5 | 35.5 | 23.8 | 13.4 | 8.9 | 16.0 | 618.5 |
| 105° | 56.1 | 57.3 | 56.2 | 48.0 | 32.8 | 20.3 | 14.9 | 22.1 | 640.6 |
| 110° | 75.4 | 75.7 | 70.9 | 59.1 | 42.1 | 27.5 | 21.3 | 27.8 | 668.4 |
| 115° | 92.2 | 91.4 | 84.2 | 69.3 | 51.0 | 34.7 | 28.4 | 32.4 | 700.7 |
| 120° | 106.0 | 104.3 | 95.1 | 77.6 | 59.4 | 41.8 | 35.4 | 35.5 | 736.3 |
| 125° | 115.1 | 111.9 | 101.7 | 85.2 | 66.4 | 48.4 | 42.8 | 36.9 | 773.1 |
| 130° | 118.2 | 115.6 | 104.8 | 89.7 | 71.8 | 55.3 | 50.2 | 36.5 | 809.6 |
| 135° | 118.0 | 115.6 | 106.0 | 92.7 | 76.1 | 61.7 | 57.6 | 34.9 | 844.5 |
| 140° | 116.1 | 114.4 | 106.3 | 94.9 | 79.7 | 67.7 | 65.3 | 32.5 | 877.0 |
| 145° | 114.2 | 113.0 | 106.3 | 96.1 | 83.1 | 73.4 | 71.6 | 29.6 | 906.6 |
| 150° | 111.5 | 111.1 | 105.1 | 96.0 | 85.8 | 78.8 | 77.3 | 26.1 | 932.7 |
| 155° | 108.5 | 108.2 | 102.4 | 95.6 | 87.9 | 83.6 | 82.4 | 22.1 | 954.8 |
| 160° | 104.1 | 103.9 | 99.3 | 94.8 | 89.7 | 87.3 | 87.1 | 17.8 | 972.6 |
| 165° | 99.5 | 99.0 | 96.7 | 93.7 | 91.6 | 90.3 | 90.4 | 13.4 | 986.0 |
| 170° | 96.1 | 95.6 | 95.0 | 93.7 | 92.8 | 92.7 | 92.7 | 9.0 | 995.0 |
| 175° | 94.1 | 94.0 | 93.5 | 93.3 | 93.3 | 93.4 | 93.4 | 4.5 | 999.4 |
| 180° | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 93.6 | 0.6 | 1000.0 |

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| UGR-Tabelle | | Standardraum | | | | | | | | | |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| | | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| Raumabmessungen | | | | | | | | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 16,3 | 17,1 | 17,1 | 18,0 | 19,0 | 16,1 | 17,0 | 16,9 | 17,8 | 18,8 |
| | 3H | 16,0 | 16,7 | 16,9 | 17,6 | 18,7 | 15,8 | 16,6 | 16,7 | 17,5 | 18,5 |
| | 4H | 15,8 | 16,5 | 16,7 | 17,4 | 18,5 | 15,7 | 16,4 | 16,6 | 17,3 | 18,4 |
| | 6H | 15,7 | 16,3 | 16,6 | 17,2 | 18,3 | 15,5 | 16,2 | 16,5 | 17,1 | 18,2 |
| | 8H | 15,6 | 16,1 | 16,5 | 17,1 | 18,2 | 15,4 | 15,9 | 16,3 | 16,9 | 18,0 |
| | 12H | 15,5 | 16,0 | 16,4 | 16,9 | 18,1 | 15,3 | 15,9 | 16,3 | 16,8 | 18,0 |
| 4H | 2H | 15,9 | 16,6 | 16,8 | 17,5 | 18,6 | 15,7 | 16,4 | 16,6 | 17,3 | 18,4 |
| | 3H | 15,6 | 16,2 | 16,5 | 17,1 | 18,3 | 15,4 | 16,0 | 16,3 | 16,9 | 18,1 |
| | 4H | 15,5 | 16,0 | 16,4 | 16,9 | 18,1 | 15,3 | 15,8 | 16,2 | 16,7 | 17,9 |
| | 6H | 15,3 | 15,7 | 16,2 | 16,7 | 17,9 | 15,1 | 15,6 | 16,1 | 16,5 | 17,7 |
| | 8H | 15,2 | 15,6 | 16,2 | 16,5 | 17,8 | 15,0 | 15,4 | 16,0 | 16,4 | 17,6 |
| | 12H | 15,1 | 15,4 | 16,1 | 16,4 | 17,6 | 14,9 | 15,3 | 15,9 | 16,2 | 17,5 |
| 8H | 4H | 15,2 | 15,6 | 16,2 | 16,6 | 17,8 | 15,0 | 15,4 | 16,0 | 16,4 | 17,6 |
| | 6H | 15,1 | 15,4 | 16,1 | 16,4 | 17,6 | 14,9 | 15,2 | 15,8 | 16,1 | 17,4 |
| | 8H | 15,0 | 15,3 | 16,0 | 16,3 | 17,5 | 14,8 | 15,1 | 15,8 | 16,1 | 17,3 |
| | 12H | 14,9 | 15,1 | 15,9 | 16,1 | 17,4 | 14,7 | 15,0 | 15,7 | 15,9 | 17,2 |
| 12H | 4H | 15,1 | 15,5 | 16,1 | 16,4 | 17,7 | 14,9 | 15,3 | 15,9 | 16,2 | 17,4 |
| | 6H | 15,0 | 15,3 | 16,0 | 16,2 | 17,5 | 14,8 | 15,1 | 15,8 | 16,0 | 17,3 |
| | 8H | 14,9 | 15,1 | 15,9 | 16,1 | 17,4 | 14,7 | 14,9 | 15,7 | 15,9 | 17,2 |

| | |
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| 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° | | 18899.4 | 19534.5 | 20198.6 | 20312.6 | 19701.6 | 18543.1 | 17683.5 |
| 50° | | 6913.1 | 7477.4 | 8559.5 | 9162.5 | 8756.1 | 7918.2 | 7387.8 |
| 55° | | 2044.6 | 2413.0 | 3214.9 | 4080.4 | 3424.2 | 2637.1 | 2267.4 |
| 60° | | 914.4 | 1019.2 | 1361.5 | 1812.4 | 1471.3 | 1147.7 | 1042.4 |
| 65° | | 372.7 | 428.1 | 593.0 | 752.9 | 667.8 | 528.3 | 484.9 |
| 70° | | 296.3 | 308.9 | 228.2 | 214.9 | 258.6 | 332.5 | 335.5 |
| 75° | | 82.1 | 110.0 | 89.4 | 125.1 | 114.9 | 137.8 | 120.2 |
| 80° | | 21.1 | 21.1 | 30.6 | 45.9 | 61.9 | 71.4 | 81.6 |
| 85° | | 571.9 | 571.9 | 555.9 | 542.9 | 535.6 | 534.2 | 545.8 |

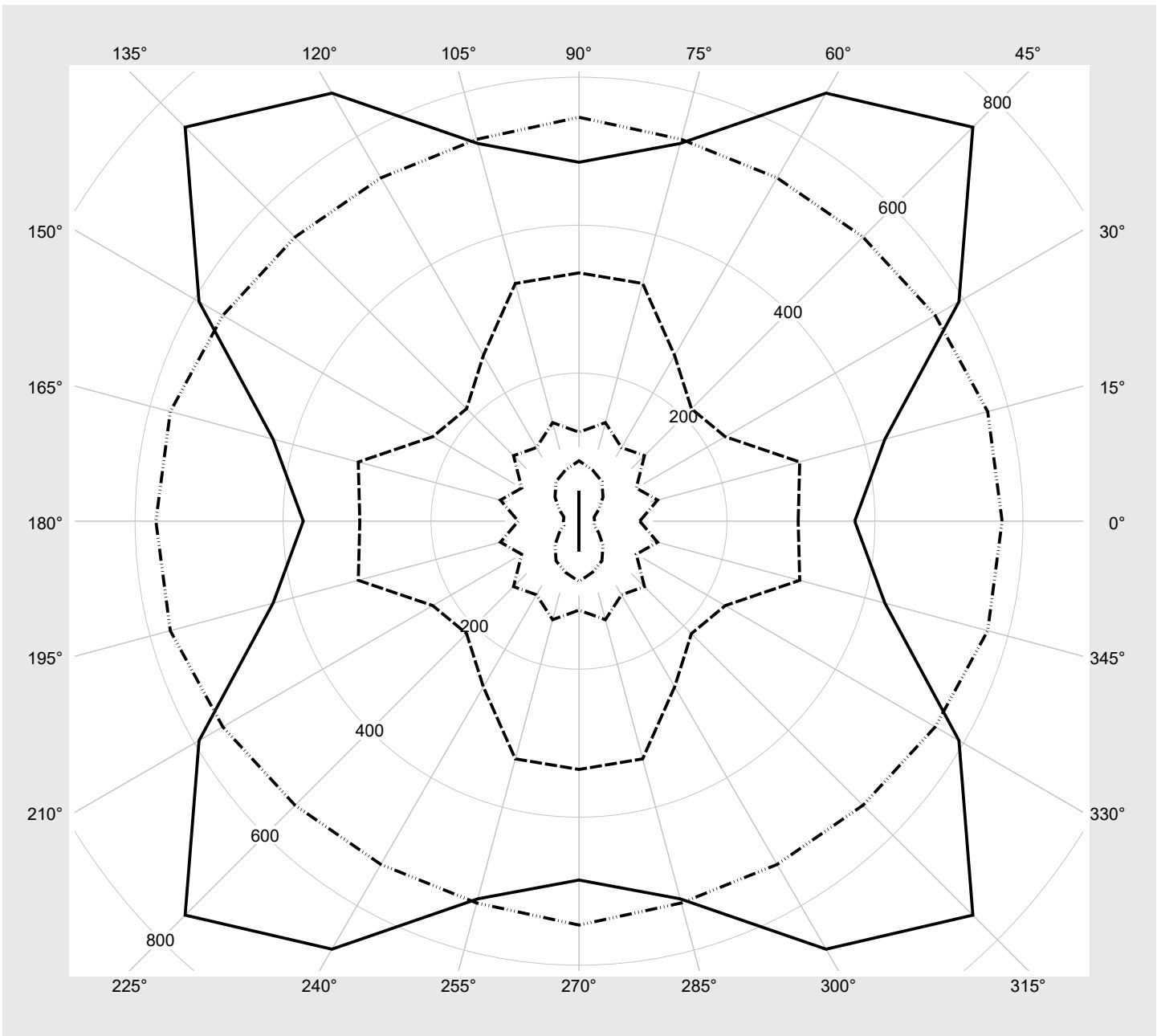
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Leuchtdichten in cd/m²

| | | | | |
|--------------|--------------|--------------|--------------|--------------|
| 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 | 7290 | 46.8 |
| 95 | 240 | 252 | 6913 | 44.2 |
| 90 | 227 | 250 | 6560 | 41.9 |
| 85 | 214 | 248 | 6204 | 39.6 |
| 80 | 201 | 245 | 5845 | 37.2 |
| 75 | 187 | 243 | 5455 | 34.7 |
| 70 | 174 | 240 | 5091 | 32.4 |
| 65 | 161 | 237 | 4726 | 30.1 |
| 60 | 149 | 234 | 4385 | 27.9 |
| 55 | 136 | 231 | 4013 | 25.6 |
| 50 | 123 | 227 | 3639 | 23.3 |
| 45 | 111 | 224 | 3292 | 21.2 |
| 40 | 98 | 219 | 2913 | 18.9 |
| 35 | 86 | 214 | 2562 | 16.8 |
| 30 | 73 | 208 | 2178 | 14.5 |
| 25 | 61 | 202 | 1821 | 12.5 |
| 20 | 49 | 194 | 1463 | 10.2 |
| 15 | 37 | 183 | 1104 | 8.2 |
| 10 | 25 | 169 | 743 | 6.1 |
| 5 | 12 | 142 | 350 | 4.0 |
| 2 | 5 | 110 | 137 | 3.4 |