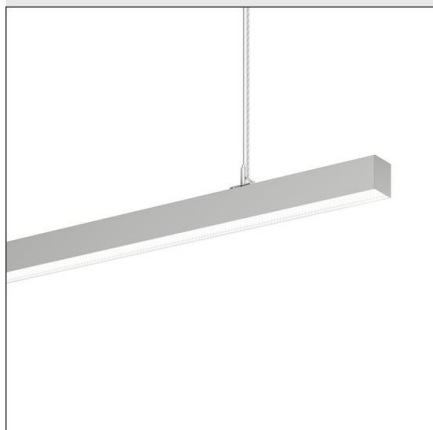


Lichttechnischer Prüfbefund

Familie
Silica® 21

Bestell-Nr.: 51MX33TAT7S
EAN: 4058352685587

LP-Nummer
59332_84



Ausführung Pendelleuchte, homogen leuchtend, Prismenabdeckung, direkt-/ indirekt strahlend, extrem breit strahlend, $UGR \leq 16$ ($L65 \leq 3000 \text{ cd/m}^2$), Tunable White

Bestückung LED 4000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Einstellung Werkseinstellung

Bemessungswerte Nettolichtstrom = 5740 lm
Systemleistung = 56.5 W
Lichtausbeute = 101.6 lm/W

Seriendokumentation
03.05.2023

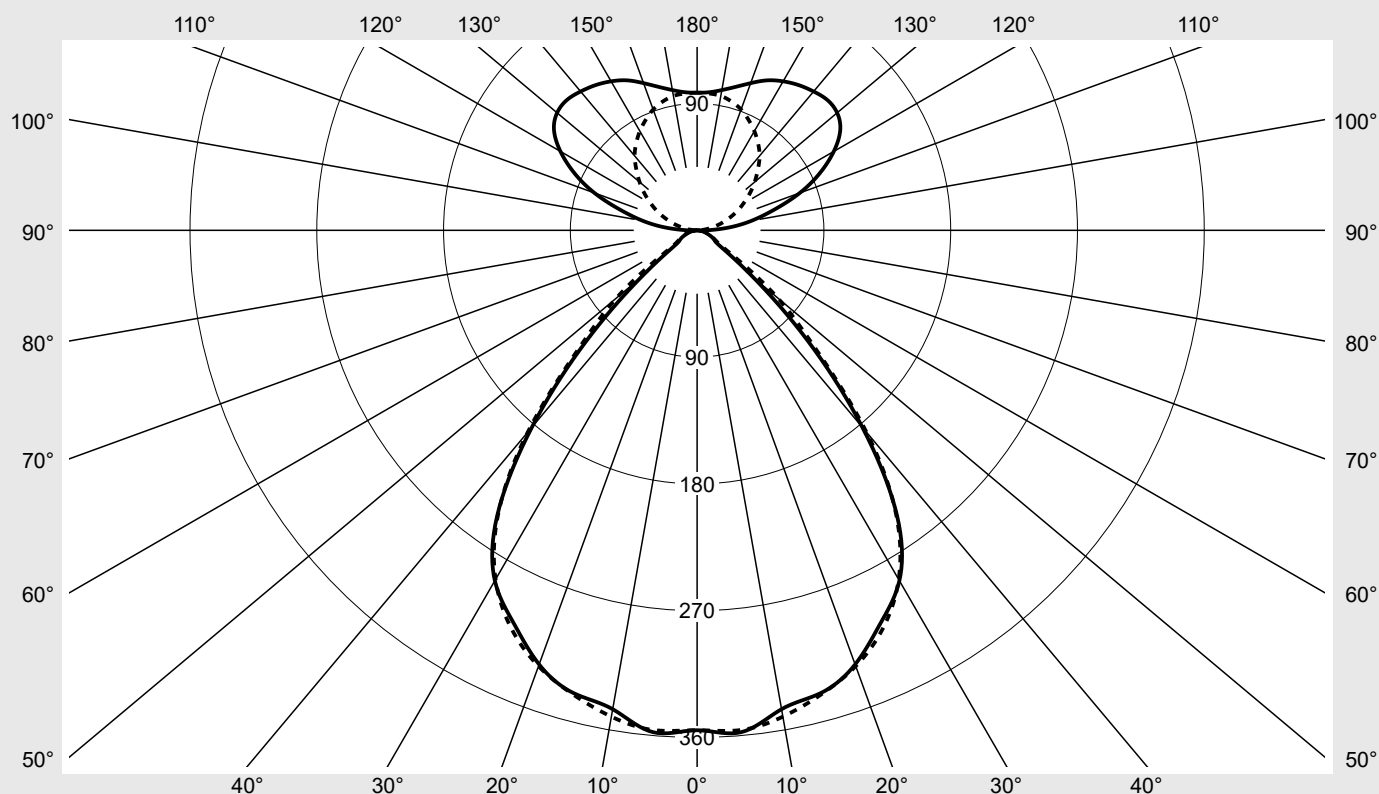
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 358 cd/klm



Klassifizierungen

DIN 5040 C 6 2
CIE N1=78 N2=96 N3=99
N4=56 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 56,2%
 ϕ_o 43,8%

Messbedingungen

DIN EN 13032 und DIN 5032

Lichttechnischer Prüfbefund

| | | |
|--|--|-------------------------------------|
| Familie Silica® 21 | Bestell-Nr.: 51MX33TAT7S EAN: 4058352685587 | LP-Nummer 59332_84 |
| 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° | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 354.9 | 2.1 | 2.1 |
| 5° | 357.6 | 358.3 | 358.1 | 358.3 | 357.8 | 357.0 | 356.1 | 17.1 | 19.2 |
| 10° | 345.2 | 344.3 | 344.5 | 346.4 | 350.1 | 350.3 | 350.6 | 33.1 | 52.3 |
| 15° | 340.0 | 338.8 | 336.2 | 336.1 | 338.1 | 341.2 | 341.0 | 48.0 | 100.3 |
| 20° | 328.0 | 327.2 | 323.2 | 324.1 | 322.5 | 324.8 | 329.3 | 60.9 | 161.2 |
| 25° | 307.9 | 308.7 | 306.4 | 306.5 | 306.8 | 306.6 | 312.0 | 71.2 | 232.5 |
| 30° | 287.2 | 287.0 | 283.4 | 284.9 | 285.2 | 284.2 | 286.2 | 78.2 | 310.6 |
| 35° | 247.5 | 247.0 | 244.6 | 246.0 | 246.7 | 245.6 | 246.4 | 77.4 | 388.0 |
| 40° | 182.5 | 182.1 | 183.5 | 184.7 | 186.1 | 185.9 | 187.0 | 65.0 | 453.0 |
| 45° | 111.7 | 111.4 | 112.8 | 114.1 | 115.4 | 116.9 | 119.1 | 44.3 | 497.3 |
| 50° | 52.4 | 60.7 | 68.3 | 62.5 | 56.3 | 66.9 | 74.7 | 26.5 | 523.8 |
| 55° | 21.3 | 28.6 | 27.1 | 30.9 | 23.3 | 32.2 | 30.0 | 12.6 | 536.4 |
| 60° | 14.3 | 14.9 | 15.7 | 14.6 | 14.6 | 15.6 | 16.3 | 7.2 | 543.6 |
| 65° | 11.8 | 11.7 | 12.2 | 11.9 | 12.4 | 12.3 | 12.4 | 6.0 | 549.6 |
| 70° | 8.5 | 8.7 | 9.0 | 9.0 | 9.2 | 9.3 | 9.8 | 4.7 | 554.2 |
| 75° | 5.9 | 6.2 | 6.8 | 6.5 | 6.6 | 7.0 | 7.1 | 3.5 | 557.7 |
| 80° | 3.6 | 3.8 | 4.2 | 4.6 | 4.2 | 4.7 | 4.8 | 2.3 | 560.0 |
| 85° | 1.8 | 1.8 | 1.8 | 2.1 | 2.2 | 2.6 | 2.7 | 1.2 | 561.2 |
| 90° | 6.2 | 6.0 | 6.3 | 6.0 | 3.5 | 1.2 | 0.4 | 2.4 | 563.6 |
| 95° | 22.4 | 22.9 | 24.7 | 23.8 | 15.7 | 8.2 | 4.2 | 9.9 | 573.5 |
| 100° | 39.4 | 40.6 | 41.5 | 37.2 | 25.7 | 14.7 | 9.7 | 16.6 | 590.1 |
| 105° | 56.7 | 58.1 | 58.0 | 51.0 | 35.4 | 22.2 | 16.2 | 23.0 | 613.1 |
| 110° | 77.6 | 78.3 | 74.6 | 63.1 | 45.4 | 29.8 | 23.1 | 29.3 | 642.4 |
| 115° | 96.2 | 95.7 | 89.3 | 74.3 | 55.1 | 37.6 | 30.6 | 34.4 | 676.8 |
| 120° | 112.0 | 110.6 | 101.9 | 83.7 | 64.3 | 45.2 | 37.9 | 38.0 | 714.8 |
| 125° | 124.0 | 121.0 | 110.5 | 92.7 | 72.3 | 52.4 | 45.6 | 39.9 | 754.8 |
| 130° | 129.8 | 127.1 | 115.2 | 98.2 | 78.4 | 59.6 | 53.3 | 39.9 | 794.7 |
| 135° | 130.8 | 128.1 | 117.0 | 101.7 | 82.9 | 66.3 | 61.0 | 38.2 | 832.9 |
| 140° | 128.7 | 126.6 | 117.2 | 103.9 | 86.2 | 72.4 | 69.0 | 35.5 | 868.4 |
| 145° | 125.8 | 124.5 | 116.6 | 104.5 | 89.3 | 78.0 | 75.4 | 32.1 | 900.6 |
| 150° | 122.1 | 121.5 | 114.3 | 103.4 | 91.6 | 83.4 | 81.3 | 28.1 | 928.7 |
| 155° | 117.5 | 116.9 | 110.1 | 102.0 | 93.3 | 88.1 | 86.5 | 23.6 | 952.4 |
| 160° | 111.2 | 110.8 | 105.7 | 100.5 | 94.8 | 91.7 | 91.2 | 18.9 | 971.3 |
| 165° | 105.4 | 104.8 | 102.1 | 98.7 | 96.3 | 94.6 | 94.6 | 14.1 | 985.4 |
| 170° | 101.1 | 100.5 | 99.8 | 98.3 | 97.2 | 96.9 | 96.9 | 9.4 | 994.7 |
| 175° | 98.4 | 98.3 | 97.7 | 97.5 | 97.5 | 97.5 | 97.5 | 4.7 | 999.4 |
| 180° | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 97.7 | 0.6 | 1000.0 |

Lichttechnischer Prüfbefund

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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 | 15,4 | 16,3 | 16,3 | 17,2 | 18,3 | 15,6 | 16,5 | 16,5 | 17,4 | 18,5 |
| | 3H | 15,3 | 16,1 | 16,2 | 17,0 | 18,1 | 15,6 | 16,4 | 16,5 | 17,3 | 18,4 |
| | 4H | 15,3 | 16,0 | 16,2 | 16,9 | 18,1 | 15,6 | 16,3 | 16,5 | 17,2 | 18,4 |
| | 6H | 15,2 | 15,8 | 16,1 | 16,8 | 17,9 | 15,6 | 16,2 | 16,5 | 17,1 | 18,3 |
| | 8H | 15,1 | 15,7 | 16,1 | 16,7 | 17,9 | 15,5 | 16,0 | 16,4 | 17,0 | 18,2 |
| | 12H | 15,0 | 15,6 | 16,0 | 16,5 | 17,8 | 15,5 | 16,0 | 16,4 | 17,0 | 18,2 |
| 4H | 2H | 15,2 | 15,9 | 16,1 | 16,8 | 17,9 | 15,3 | 16,0 | 16,2 | 16,9 | 18,1 |
| | 3H | 15,2 | 15,8 | 16,1 | 16,7 | 17,9 | 15,4 | 16,0 | 16,3 | 16,9 | 18,1 |
| | 4H | 15,2 | 15,7 | 16,1 | 16,7 | 17,9 | 15,4 | 16,0 | 16,4 | 16,9 | 18,1 |
| | 6H | 15,2 | 15,6 | 16,1 | 16,6 | 17,8 | 15,5 | 15,9 | 16,5 | 16,9 | 18,1 |
| | 8H | 15,1 | 15,5 | 16,1 | 16,5 | 17,8 | 15,5 | 15,9 | 16,5 | 16,9 | 18,1 |
| | 12H | 15,1 | 15,4 | 16,1 | 16,4 | 17,7 | 15,5 | 15,9 | 16,5 | 16,8 | 18,1 |
| 8H | 4H | 15,1 | 15,5 | 16,0 | 16,4 | 17,7 | 15,3 | 15,7 | 16,2 | 16,6 | 17,9 |
| | 6H | 15,1 | 15,5 | 16,1 | 16,5 | 17,7 | 15,4 | 15,7 | 16,4 | 16,7 | 18,0 |
| | 8H | 15,1 | 15,4 | 16,1 | 16,4 | 17,7 | 15,5 | 15,8 | 16,5 | 16,8 | 18,1 |
| | 12H | 15,1 | 15,3 | 16,1 | 16,3 | 17,6 | 15,6 | 15,8 | 16,6 | 16,8 | 18,1 |
| 12H | 4H | 15,0 | 15,3 | 16,0 | 16,3 | 17,6 | 15,2 | 15,5 | 16,2 | 16,5 | 17,8 |
| | 6H | 15,1 | 15,3 | 16,1 | 16,3 | 17,6 | 15,3 | 15,6 | 16,4 | 16,6 | 17,9 |
| | 8H | 15,1 | 15,3 | 16,1 | 16,3 | 17,6 | 15,4 | 15,7 | 16,5 | 16,7 | 18,0 |

| | | | | |
|------------------------------|---|---|-----------------|---------------|
| 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° | | 15106.7 | 15074.0 | 15263.2 | 15443.0 | 15610.3 | 15809.5 | 16118.8 |
| 50° | | 7801.6 | 9038.1 | 10164.1 | 9302.1 | 8383.0 | 9956.2 | 11114.7 |
| 55° | | 3547.1 | 4778.0 | 4513.3 | 5156.1 | 3894.2 | 5377.3 | 4998.2 |
| 60° | | 2745.3 | 2849.0 | 3011.4 | 2791.4 | 2801.7 | 2979.6 | 3114.3 |
| 65° | | 2667.1 | 2646.2 | 2752.2 | 2684.9 | 2798.8 | 2794.5 | 2815.1 |
| 70° | | 2385.9 | 2430.7 | 2529.1 | 2528.9 | 2568.9 | 2598.2 | 2732.2 |
| 75° | | 2190.8 | 2273.9 | 2505.7 | 2393.0 | 2448.4 | 2573.3 | 2635.4 |
| 80° | | 1978.9 | 2096.3 | 2312.2 | 2516.6 | 2334.3 | 2604.2 | 2666.5 |
| 85° | | 1924.2 | 1950.5 | 2027.4 | 2346.8 | 2464.2 | 2819.9 | 2939.5 |

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

