

Lichttechnischer Prüfbefund

Familie
Silica® 21

Bestell-Nr.: 51MX23TCTAB
EAN: 4058352800171

LP-Nummer
59330_144



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

Bestückung LED 2700 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Einstellung indiv. Einstellung

Bemessungswerte Nettolichtstrom = 8070 lm
Systemleistung = 92.2 W
Lichtausbeute = 87.5 lm/W

Seriendokumentation
03.05.2023

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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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| Familie Silica® 21 | Bestell-Nr.: 51MX23TCTAB EAN: 4058352800171 | LP-Nummer 59330_144 |
| 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 | 19,7 | 18,7 | 20,1 | 20,4 | 18,6 | 20,0 | 18,9 | 20,3 | 20,6 |
| | 3H | 18,4 | 19,6 | 18,8 | 20,0 | 20,3 | 18,7 | 19,9 | 19,1 | 20,2 | 20,6 |
| | 4H | 18,5 | 19,6 | 18,9 | 19,9 | 20,3 | 18,7 | 19,9 | 19,1 | 20,2 | 20,6 |
| | 6H | 18,5 | 19,5 | 18,9 | 19,9 | 20,3 | 18,8 | 19,8 | 19,2 | 20,2 | 20,6 |
| | 8H | 18,6 | 19,5 | 19,0 | 19,9 | 20,3 | 18,9 | 19,8 | 19,3 | 20,2 | 20,6 |
| | 12H | 18,6 | 19,4 | 19,0 | 19,8 | 20,2 | 18,9 | 19,8 | 19,4 | 20,2 | 20,6 |
| 4H | 2H | 18,3 | 19,4 | 18,7 | 19,8 | 20,1 | 18,5 | 19,6 | 18,9 | 20,0 | 20,4 |
| | 3H | 18,4 | 19,4 | 18,9 | 19,8 | 20,2 | 18,7 | 19,6 | 19,1 | 20,0 | 20,4 |
| | 4H | 18,5 | 19,4 | 19,0 | 19,8 | 20,2 | 18,8 | 19,6 | 19,2 | 20,0 | 20,5 |
| | 6H | 18,6 | 19,3 | 19,1 | 19,8 | 20,2 | 18,9 | 19,6 | 19,4 | 20,1 | 20,5 |
| | 8H | 18,6 | 19,3 | 19,1 | 19,7 | 20,2 | 19,0 | 19,6 | 19,5 | 20,1 | 20,6 |
| | 12H | 18,7 | 19,2 | 19,2 | 19,7 | 20,2 | 19,1 | 19,6 | 19,6 | 20,1 | 20,6 |
| 8H | 4H | 18,5 | 19,2 | 19,0 | 19,6 | 20,1 | 18,8 | 19,4 | 19,3 | 19,9 | 20,3 |
| | 6H | 18,7 | 19,2 | 19,2 | 19,7 | 20,2 | 19,0 | 19,5 | 19,5 | 20,0 | 20,5 |
| | 8H | 18,7 | 19,2 | 19,2 | 19,6 | 20,2 | 19,1 | 19,5 | 19,6 | 20,0 | 20,5 |
| | 12H | 18,7 | 19,1 | 19,3 | 19,6 | 20,2 | 19,2 | 19,5 | 19,7 | 20,0 | 20,6 |
| 12H | 4H | 18,5 | 19,1 | 19,0 | 19,5 | 20,0 | 18,8 | 19,3 | 19,3 | 19,8 | 20,3 |
| | 6H | 18,7 | 19,1 | 19,2 | 19,6 | 20,1 | 19,0 | 19,4 | 19,5 | 19,9 | 20,4 |
| | 8H | 18,7 | 19,1 | 19,3 | 19,6 | 20,2 | 19,1 | 19,5 | 19,6 | 20,0 | 20,5 |

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| Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: L = 3000 B = 50 |
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| 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° | | 15094.0 | 15142.8 | 15270.8 | 15483.9 | 15694.9 | 15919.9 | 16136.3 |
| 50° | | 7859.0 | 9078.9 | 10212.9 | 9311.0 | 8389.9 | 9983.8 | 11180.5 |
| 55° | | 3536.5 | 4782.7 | 4522.6 | 5156.4 | 3889.5 | 5389.7 | 5012.6 |
| 60° | | 2742.5 | 2855.2 | 3029.3 | 2813.7 | 2806.1 | 2994.0 | 3118.2 |
| 65° | | 2669.4 | 2652.1 | 2762.8 | 2685.7 | 2812.7 | 2799.1 | 2838.2 |
| 70° | | 2390.3 | 2440.7 | 2540.6 | 2529.2 | 2575.3 | 2605.5 | 2737.8 |
| 75° | | 2198.6 | 2278.6 | 2508.3 | 2400.0 | 2453.5 | 2573.4 | 2577.8 |
| 80° | | 1978.5 | 2102.1 | 2320.9 | 2524.1 | 2336.4 | 2612.4 | 2618.3 |
| 85° | | 1495.7 | 1517.9 | 1619.1 | 1979.6 | 2134.0 | 2508.0 | 2630.9 |

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Leuchtdichten in cd/m²

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

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