

Lichttechnischer Prüfbefund

Familie
Silica® 21 Floor

Bestell-Nr.: 51MX53DA4ZM00982XX
EAN: 4069025333858

LP-Nummer
59770_3



| | |
|------------------------|---|
| Ausführung | Stehleuchte, homogen leuchtend, Prismenabdeckung, indirekt-/ direkt strahlend, extrem breit strahlend, mit Präsenz- und Tageslichtsensor |
| Bestückung | LED 4000 K CRI ≥ 80 |
| Betriebsgerät | EVG-DALI |
| Einstellung | Werkseinstellung: Direkt- und Indirektanteil in Betrieb |
| Bemessungswerte | Nettolichtstrom = 13280 lm Systemleistung = 84.7 W Lichtausbeute = 156.8 lm/W |

Seriendokumentation
10.04.2025

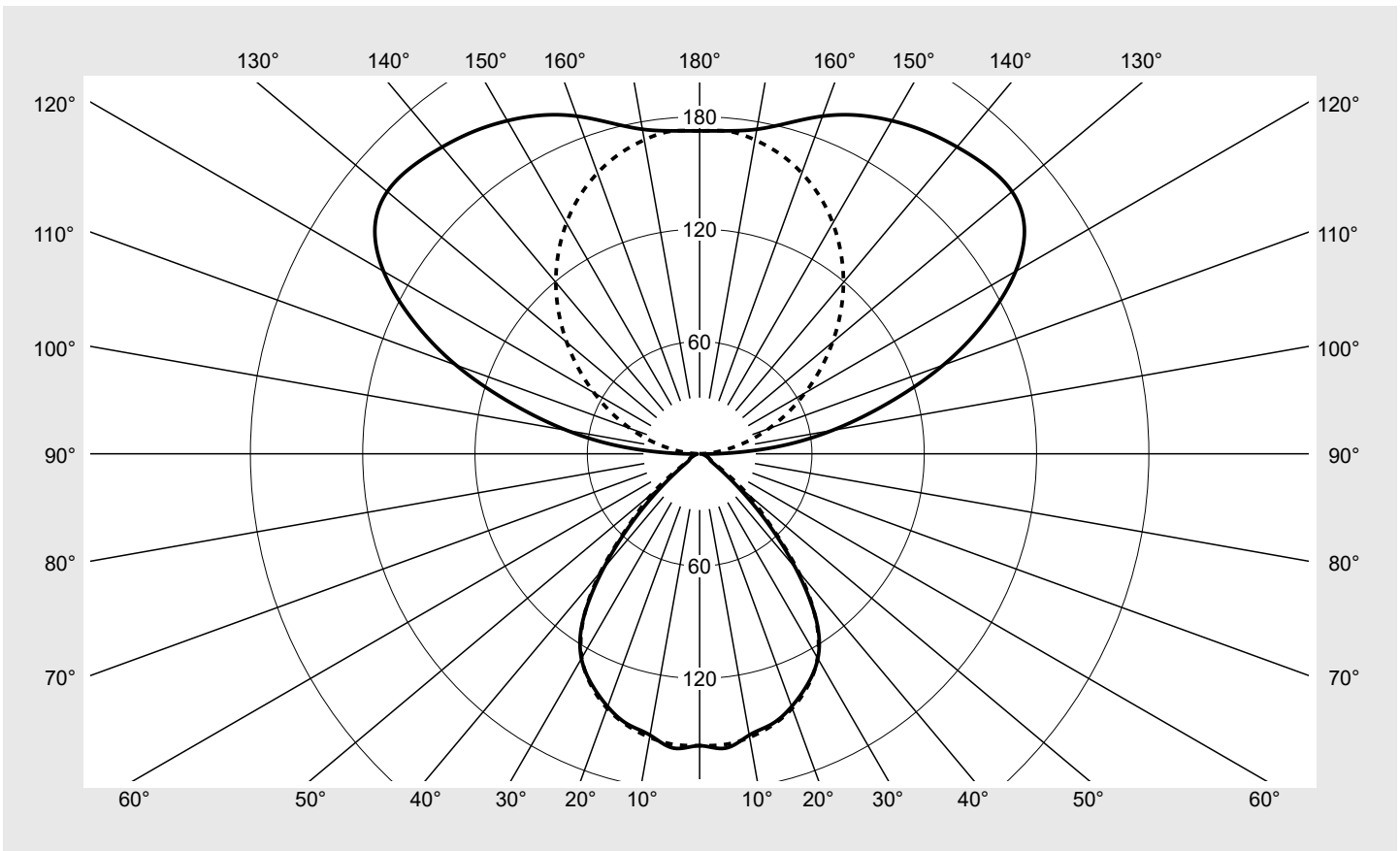
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 218 cd/klm



Klassifizierungen

DIN 5040 D 6 2
CIE N1=78 N2=95 N3=98
N4=25 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 24,9%
 ϕ_o 75,1%

Messbedingungen

DIN EN 13032 und DIN 5032

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|---|---|------------------------------------|
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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° | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 155.9 | 0.9 | 0.9 | |
| 5° | 157.8 | 157.3 | 157.0 | 158.3 | 158.6 | 156.8 | 155.9 | 7.5 | 8.5 | |
| 10° | 152.6 | 152.1 | 151.2 | 152.3 | 154.3 | 155.5 | 153.8 | 14.6 | 23.0 | |
| 15° | 149.4 | 149.0 | 147.6 | 147.5 | 148.6 | 150.2 | 150.1 | 21.1 | 44.1 | |
| 20° | 143.7 | 143.6 | 142.2 | 142.2 | 142.3 | 143.2 | 144.7 | 26.8 | 70.9 | |
| 25° | 136.1 | 136.2 | 134.9 | 134.8 | 134.9 | 135.1 | 136.8 | 31.4 | 102.3 | |
| 30° | 126.3 | 126.5 | 125.1 | 125.2 | 125.1 | 125.0 | 125.9 | 34.4 | 136.7 | |
| 35° | 108.8 | 108.9 | 107.9 | 108.4 | 109.0 | 108.3 | 108.4 | 34.1 | 170.8 | |
| 40° | 79.9 | 80.2 | 80.5 | 81.4 | 82.1 | 82.2 | 82.3 | 28.6 | 199.4 | |
| 45° | 49.0 | 49.2 | 49.6 | 50.3 | 51.0 | 51.7 | 52.4 | 19.5 | 219.0 | |
| 50° | 23.2 | 26.8 | 30.1 | 27.5 | 24.8 | 29.5 | 33.0 | 11.7 | 230.6 | |
| 55° | 9.3 | 12.6 | 11.9 | 13.6 | 10.2 | 14.2 | 13.2 | 5.5 | 236.2 | |
| 60° | 6.3 | 6.6 | 7.0 | 6.5 | 6.4 | 6.9 | 7.2 | 3.2 | 239.3 | |
| 65° | 5.2 | 5.1 | 5.4 | 5.2 | 5.5 | 5.4 | 5.5 | 2.6 | 242.0 | |
| 70° | 3.8 | 3.8 | 4.0 | 4.0 | 4.0 | 4.1 | 4.3 | 2.1 | 244.0 | |
| 75° | 2.6 | 2.7 | 3.0 | 2.9 | 2.9 | 3.1 | 3.1 | 1.5 | 245.6 | |
| 80° | 1.6 | 1.7 | 1.9 | 2.0 | 1.9 | 2.1 | 2.1 | 1.0 | 246.6 | |
| 85° | 1.3 | 1.3 | 1.3 | 1.4 | 1.4 | 1.5 | 1.6 | 0.8 | 247.3 | |
| 90° | 8.7 | 8.4 | 8.9 | 8.8 | 5.2 | 1.8 | 0.7 | 3.4 | 250.8 | |
| 95° | 40.2 | 41.1 | 44.2 | 41.8 | 26.8 | 13.7 | 7.1 | 17.4 | 268.2 | |
| 100° | 72.0 | 73.9 | 74.5 | 65.3 | 43.9 | 24.8 | 16.3 | 29.4 | 297.6 | |
| 105° | 104.0 | 105.7 | 103.3 | 88.3 | 60.3 | 37.4 | 27.5 | 40.7 | 338.2 | |
| 110° | 138.5 | 139.8 | 131.0 | 108.3 | 77.6 | 50.6 | 39.4 | 51.2 | 389.4 | |
| 115° | 169.1 | 167.9 | 155.1 | 127.3 | 94.2 | 64.0 | 52.1 | 59.5 | 449.0 | |
| 120° | 195.0 | 191.8 | 174.8 | 143.2 | 109.5 | 76.9 | 65.1 | 65.4 | 514.3 | |
| 125° | 211.7 | 207.1 | 187.4 | 156.2 | 122.0 | 89.4 | 78.7 | 67.9 | 582.2 | |
| 130° | 217.9 | 213.1 | 193.1 | 165.0 | 132.0 | 101.6 | 92.7 | 67.2 | 649.4 | |
| 135° | 217.1 | 213.1 | 195.3 | 171.0 | 140.7 | 113.4 | 106.4 | 64.3 | 713.7 | |
| 140° | 213.9 | 211.1 | 196.2 | 174.6 | 147.7 | 124.8 | 119.5 | 60.0 | 773.7 | |
| 145° | 210.2 | 208.2 | 195.6 | 176.6 | 153.3 | 135.3 | 131.5 | 54.5 | 828.1 | |
| 150° | 205.4 | 204.0 | 193.1 | 177.1 | 157.9 | 144.9 | 142.3 | 48.0 | 876.2 | |
| 155° | 199.5 | 198.5 | 189.0 | 176.0 | 161.9 | 153.4 | 151.8 | 40.7 | 916.9 | |
| 160° | 191.9 | 191.2 | 183.4 | 174.0 | 165.2 | 160.5 | 159.6 | 32.8 | 949.7 | |
| 165° | 182.9 | 182.8 | 177.5 | 172.4 | 168.2 | 166.0 | 165.8 | 24.6 | 974.3 | |
| 170° | 176.0 | 176.6 | 173.6 | 171.9 | 170.5 | 170.0 | 170.2 | 16.4 | 990.7 | |
| 175° | 173.1 | 173.9 | 172.1 | 172.0 | 172.0 | 172.3 | 173.0 | 8.2 | 999.0 | |
| 180° | 172.5 | 172.5 | 172.5 | 172.5 | 172.5 | 172.5 | 172.5 | 1.0 | 1000.0 | |

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| UGR-Tabelle | Standardraum | siteco |

Die UGR-Formel ist für diese Leuchtentype nicht anwendbar, siehe LiTG Publikation 20:

"Das UGR - Verfahren zur Bewertung der Direktblendung der künstlichen Beleuchtung in Innenräumen"

| | | | |
|------------------------------|---|---|----------------------------------|
| 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° | | 15338.2 | 15387.7 | 15517.9 | 15734.5 | 15948.9 | 16177.4 | 16397.2 |
| 50° | | 7986.1 | 9225.7 | 10378.2 | 9461.6 | 8525.7 | 10145.4 | 11361.3 |
| 55° | | 3593.7 | 4860.2 | 4595.9 | 5239.9 | 3952.6 | 5476.8 | 5093.7 |
| 60° | | 2787.0 | 2901.2 | 3078.3 | 2859.2 | 2851.7 | 3042.4 | 3168.6 |
| 65° | | 2712.3 | 2695.1 | 2807.7 | 2729.1 | 2858.5 | 2844.3 | 2884.1 |
| 70° | | 2428.7 | 2480.5 | 2581.4 | 2570.4 | 2617.0 | 2647.4 | 2782.0 |
| 75° | | 2234.5 | 2315.8 | 2549.3 | 2438.9 | 2492.8 | 2615.1 | 2619.4 |
| 80° | | 2010.1 | 2136.2 | 2358.0 | 2564.5 | 2374.6 | 2655.0 | 2660.1 |
| 85° | | 3293.8 | 3265.8 | 3281.1 | 3494.4 | 3517.2 | 3811.8 | 3936.2 |

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Leuchtdichten in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

