

Lichttechnischer Prüfbefund

Familie
Monsun® Ex

Bestell-Nr.: 51FXC27A410A3H
EAN: 4058352933909

LP-Nummer
59503_3



Ausführung Prismenwanne, opal, PC, diffus strahlend,
Notlicht 3h

Bestückung LED 4000 K | CRI ≥ 80

Betriebsgerät EVG-DALI

Bemessungswerte Nettolichtstrom = 1600 lm
Systemleistung = 13.0 W
Lichtausbeute = 123.1 lm/W

Seriendokumentation
06.11.2023

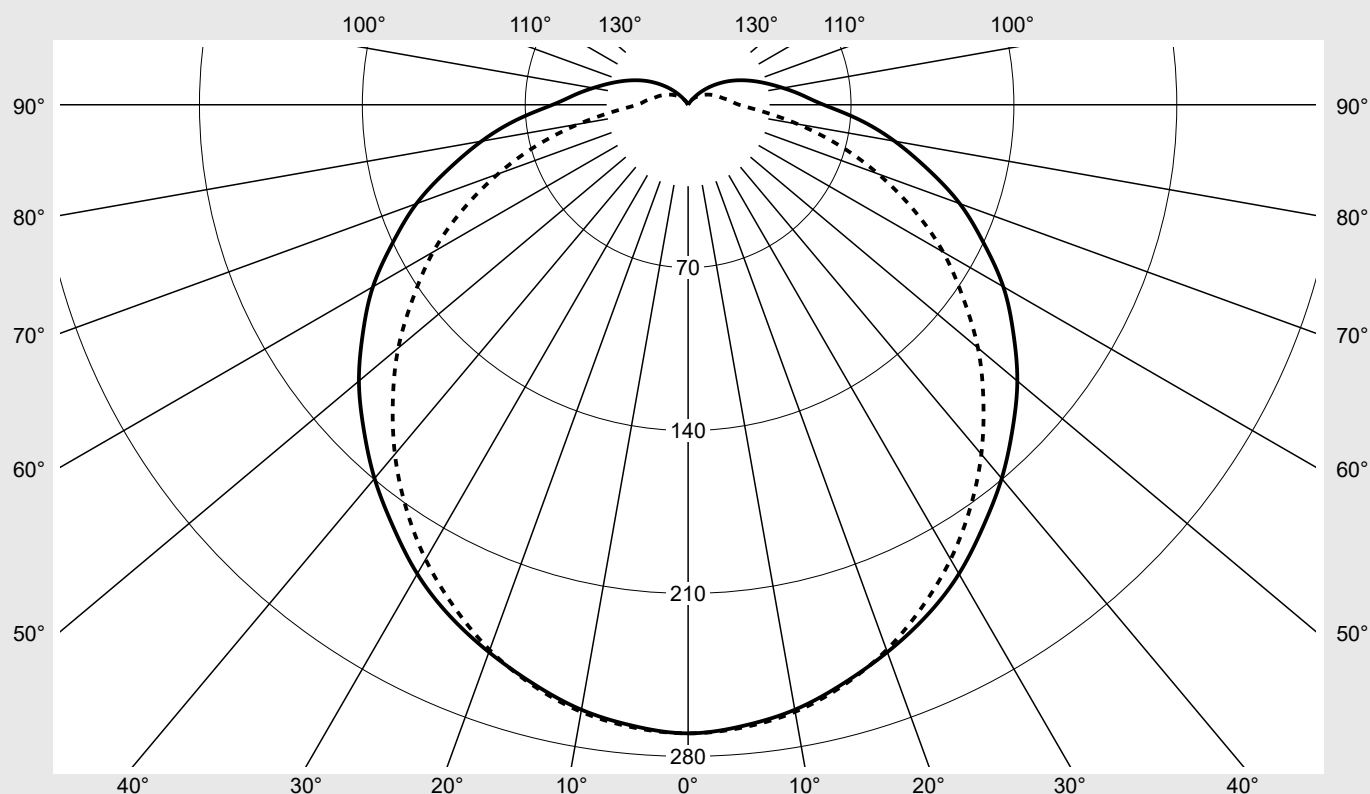
sitEco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 270 cd/klm



Klassifizierungen

DIN 5040 A 3 1
CIE N1=40 N2=70 N3=89
N4=90 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 90,3%
 ϕ_o 9,7%

Messbedingungen

DIN EN 13032 und DIN 5032

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| | | |
|--|---|------------------------------------|
| Familie Monsun® Ex | Bestell-Nr.: 51FXC27A410A3H EAN: 4058352933909 | LP-Nummer 59503_3 |
| 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° | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 270.1 | 1.6 | 1.6 |
| 5° | 268.0 | 268.2 | 267.9 | 268.2 | 268.4 | 268.6 | 268.7 | 12.8 | 14.4 |
| 10° | 264.0 | 263.4 | 263.4 | 263.6 | 264.2 | 264.5 | 264.9 | 25.1 | 39.6 |
| 15° | 257.5 | 257.7 | 257.5 | 257.1 | 257.4 | 257.7 | 258.2 | 36.5 | 76.1 |
| 20° | 250.3 | 250.6 | 250.4 | 249.4 | 248.7 | 249.0 | 249.3 | 46.8 | 122.9 |
| 25° | 242.4 | 241.7 | 240.6 | 239.9 | 238.8 | 238.2 | 238.1 | 55.6 | 178.5 |
| 30° | 232.8 | 231.9 | 230.5 | 228.8 | 226.9 | 226.0 | 225.6 | 62.7 | 241.2 |
| 35° | 221.1 | 220.6 | 218.1 | 215.9 | 212.8 | 212.2 | 211.4 | 67.9 | 309.1 |
| 40° | 209.6 | 209.0 | 205.9 | 201.4 | 197.7 | 196.8 | 196.0 | 71.3 | 380.4 |
| 45° | 197.2 | 195.5 | 191.4 | 186.7 | 182.7 | 180.6 | 179.4 | 72.7 | 453.0 |
| 50° | 184.7 | 182.8 | 177.9 | 171.4 | 166.3 | 163.7 | 162.6 | 72.5 | 525.5 |
| 55° | 170.6 | 168.9 | 162.9 | 155.2 | 149.5 | 145.9 | 144.1 | 70.3 | 595.9 |
| 60° | 156.4 | 154.4 | 147.2 | 139.0 | 132.0 | 127.3 | 126.5 | 66.6 | 662.4 |
| 65° | 140.0 | 137.7 | 130.5 | 121.1 | 113.9 | 109.1 | 107.0 | 60.9 | 723.4 |
| 70° | 124.2 | 122.3 | 113.2 | 103.8 | 95.9 | 89.7 | 86.9 | 54.1 | 777.5 |
| 75° | 106.5 | 104.6 | 97.0 | 86.4 | 77.9 | 70.8 | 67.1 | 46.2 | 823.7 |
| 80° | 90.1 | 87.8 | 80.5 | 69.8 | 60.6 | 53.0 | 47.8 | 37.8 | 861.5 |
| 85° | 73.9 | 72.6 | 66.9 | 55.7 | 45.6 | 37.3 | 31.6 | 30.1 | 891.6 |
| 90° | 58.2 | 57.2 | 52.3 | 44.9 | 34.7 | 26.7 | 21.9 | 23.4 | 915.0 |
| 95° | 48.9 | 48.1 | 43.8 | 36.7 | 28.6 | 21.2 | 18.5 | 19.3 | 934.3 |
| 100° | 41.4 | 40.6 | 36.8 | 30.6 | 23.4 | 17.3 | 15.6 | 16.0 | 950.3 |
| 105° | 35.2 | 34.3 | 30.9 | 25.4 | 19.2 | 14.3 | 13.6 | 13.1 | 963.4 |
| 110° | 29.8 | 28.8 | 25.9 | 20.9 | 15.6 | 11.9 | 11.9 | 10.6 | 974.0 |
| 115° | 24.9 | 23.7 | 21.1 | 16.8 | 12.4 | 9.9 | 10.2 | 8.4 | 982.4 |
| 120° | 20.3 | 19.1 | 16.7 | 13.1 | 9.4 | 8.3 | 8.7 | 6.4 | 988.8 |
| 125° | 15.8 | 14.7 | 12.6 | 9.5 | 6.8 | 6.8 | 7.2 | 4.6 | 993.5 |
| 130° | 11.7 | 10.7 | 8.7 | 6.3 | 4.7 | 5.5 | 5.8 | 3.1 | 996.6 |
| 135° | 7.8 | 6.9 | 5.1 | 3.6 | 3.4 | 4.2 | 4.5 | 1.9 | 998.5 |
| 140° | 4.3 | 3.6 | 2.2 | 1.5 | 2.4 | 3.1 | 3.3 | 1.0 | 999.5 |
| 145° | 1.6 | 1.2 | 0.3 | 0.7 | 1.5 | 2.0 | 2.2 | 0.4 | 999.9 |
| 150° | 0.1 | 0.1 | 0.1 | 0.1 | 0.6 | 1.1 | 1.2 | 0.1 | 1000.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.4 | 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 | 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 | 19,6 | 21,4 | 20,0 | 21,7 | 22,0 | 18,7 | 20,4 | 19,0 | 20,8 | 21,1 |
| | 3H | 22,1 | 23,7 | 22,4 | 24,0 | 24,4 | 20,6 | 22,2 | 20,9 | 22,5 | 22,9 |
| | 4H | 23,3 | 24,9 | 23,7 | 25,2 | 25,6 | 21,4 | 23,0 | 21,8 | 23,3 | 23,7 |
| | 6H | 24,7 | 26,1 | 25,1 | 26,4 | 26,8 | 22,2 | 23,7 | 22,6 | 24,0 | 24,4 |
| | 8H | 25,4 | 26,7 | 25,8 | 27,1 | 27,5 | 22,6 | 24,0 | 23,0 | 24,4 | 24,8 |
| | 12H | 26,2 | 27,5 | 26,6 | 27,8 | 28,3 | 23,0 | 24,3 | 23,4 | 24,7 | 25,1 |
| 4H | 2H | 20,4 | 22,0 | 20,8 | 22,3 | 22,7 | 19,7 | 21,2 | 20,1 | 21,6 | 22,0 |
| | 3H | 23,1 | 24,4 | 23,5 | 24,8 | 25,2 | 21,8 | 23,2 | 22,2 | 23,5 | 23,9 |
| | 4H | 24,5 | 25,7 | 24,9 | 26,1 | 26,6 | 22,8 | 24,1 | 23,3 | 24,5 | 24,9 |
| | 6H | 26,0 | 27,1 | 26,5 | 27,6 | 28,0 | 23,8 | 24,9 | 24,2 | 25,3 | 25,8 |
| | 8H | 26,9 | 27,9 | 27,3 | 28,3 | 28,8 | 24,2 | 25,3 | 24,7 | 25,7 | 26,2 |
| | 12H | 27,8 | 28,7 | 28,3 | 29,2 | 29,7 | 24,7 | 25,6 | 25,2 | 26,1 | 26,6 |
| 8H | 4H | 25,0 | 26,0 | 25,4 | 26,4 | 26,9 | 23,6 | 24,6 | 24,0 | 25,0 | 25,5 |
| | 6H | 26,7 | 27,6 | 27,2 | 28,1 | 28,6 | 24,8 | 25,6 | 25,3 | 26,1 | 26,6 |
| | 8H | 27,8 | 28,5 | 28,2 | 29,0 | 29,5 | 25,4 | 26,1 | 25,9 | 26,6 | 27,1 |
| | 12H | 28,9 | 29,6 | 29,4 | 30,1 | 30,6 | 26,0 | 26,7 | 26,5 | 27,2 | 27,7 |
| 12H | 4H | 25,0 | 26,0 | 25,5 | 26,4 | 26,9 | 23,8 | 24,7 | 24,3 | 25,2 | 25,6 |
| | 6H | 26,9 | 27,7 | 27,4 | 28,1 | 28,7 | 25,1 | 25,9 | 25,6 | 26,3 | 26,9 |
| | 8H | 28,0 | 28,7 | 28,5 | 29,2 | 29,7 | 25,8 | 26,5 | 26,3 | 27,0 | 27,5 |

| | | | | |
|------------------------------|---|---|----------------|----------------|
| Leuchtdichten-Tabelle | Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: | L = 338 | B = 176 |
|------------------------------|---|---|----------------|----------------|

| 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° | | 7499.6 | 7437.9 | 7278.6 | 7102.9 | 6948.4 | 6869.7 | 6825.2 |
| 50° | | 7727.4 | 7650.4 | 7445.4 | 7171.4 | 6958.8 | 6850.0 | 6803.2 |
| 55° | | 7998.7 | 7921.3 | 7639.1 | 7275.7 | 7011.3 | 6843.4 | 6759.0 |
| 60° | | 8413.0 | 8304.9 | 7919.8 | 7478.7 | 7102.7 | 6847.8 | 6806.9 |
| 65° | | 8908.5 | 8764.7 | 8307.8 | 7707.1 | 7250.1 | 6944.1 | 6807.9 |
| 70° | | 9770.2 | 9614.5 | 8902.8 | 8162.9 | 7537.8 | 7056.5 | 6837.1 |
| 75° | | 11066.5 | 10874.3 | 10076.3 | 8977.9 | 8092.6 | 7352.8 | 6970.4 |
| 80° | | 13959.1 | 13604.4 | 12464.5 | 10815.1 | 9383.9 | 8214.7 | 7396.9 |
| 85° | | 22791.3 | 22414.8 | 20643.7 | 17197.0 | 14068.1 | 11509.8 | 9760.4 |

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Leuchtdichten in cd/m²

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

siteco

