

Lichttechnischer Prüfbefund

Familie
Mirrortec® LED



Bestell-Nr.: 5NW14093QB + 5XA7682G3H2AC
EAN: 4039806568465 + 4058352223734

LP-Nummer
58026_12

Seriendokumentation
16.12.2020

Ausführung SMR100A 900x900, 3 St. Einseil-Abhänger,
FL20 midi power RS5

Bestückung LED 5000 K | CRI ≥ 70

Betriebsgerät EVG-DALI

Einstellung indiv. Einstellung: Abstand Fluter Spiegel =
2,0m / Spiegelneigung = 5°

Bemessungswerte Nettolichtstrom = 34360 lm
Systemleistung = 305.7 W
Lichtausbeute = 112.4 lm/W

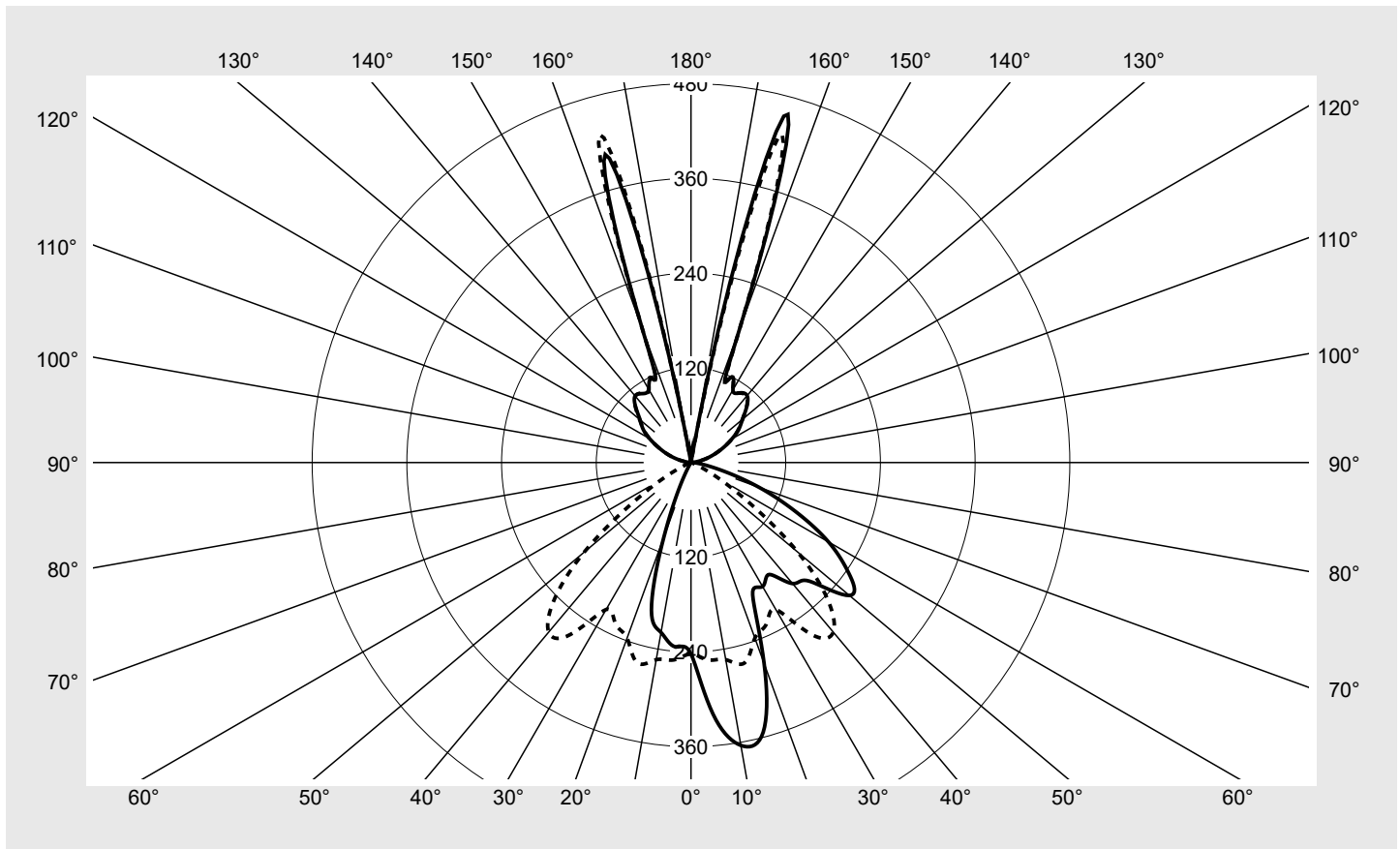
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 454 cd/klm



Klassifizierungen

DIN 5040 B 4 3
CIE N1=47 N2=83 N3=98
N4=60 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 60,5%
 ϕ_o 39,5%

Messbedingungen

DIN EN 13032 und DIN 5032

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|--|---|-------------------------------------|
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| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
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| C- Ebenen | 0° | 15° 345° | 30° 330° | 45° 315° | 60° 300° | 75° 285° | 90° 270° |
|--------------|-----------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| γ | Lichtstärke in cd/klm | | | | | | |
| 0° | 242.6 | 242.6 | 242.6 | 242.6 | 242.6 | 242.6 | 242.6 |
| 5° | 319.8 | 314.2 | 290.7 | 275.3 | 266.3 | 258.2 | 251.0 |
| 10° | 363.9 | 366.1 | 361.2 | 333.2 | 298.1 | 263.4 | 253.6 |
| 15° | 353.7 | 352.2 | 335.4 | 310.0 | 279.2 | 259.3 | 262.8 |
| 20° | 270.9 | 268.1 | 270.6 | 255.5 | 231.7 | 223.0 | 236.7 |
| 25° | 185.0 | 195.8 | 196.2 | 206.3 | 203.2 | 215.7 | 225.9 |
| 30° | 181.4 | 176.2 | 168.6 | 189.2 | 188.7 | 205.0 | 215.0 |
| 35° | 173.2 | 181.0 | 181.3 | 189.2 | 204.3 | 225.9 | 265.7 |
| 40° | 200.2 | 197.6 | 198.2 | 209.6 | 243.6 | 265.8 | 280.5 |
| 45° | 212.7 | 218.6 | 240.8 | 251.6 | 266.1 | 261.9 | 244.6 |
| 50° | 262.0 | 261.3 | 272.7 | 295.6 | 273.9 | 218.1 | 176.5 |
| 55° | 243.9 | 272.1 | 319.7 | 301.1 | 219.5 | 129.9 | 95.2 |
| 60° | 201.2 | 224.5 | 297.3 | 302.7 | 156.4 | 73.8 | 42.6 |
| 65° | 145.2 | 176.1 | 251.0 | 235.9 | 91.6 | 27.7 | 12.9 |
| 70° | 91.8 | 101.0 | 170.9 | 154.0 | 47.2 | 8.0 | 2.4 |
| 75° | 44.9 | 56.7 | 100.9 | 86.0 | 17.2 | 2.1 | 0.0 |
| 80° | 18.6 | 23.4 | 44.4 | 45.4 | 5.4 | 0.0 | 0.0 |
| 85° | 6.9 | 7.3 | 22.4 | 22.2 | 1.7 | 0.0 | 0.0 |
| 90° | 1.9 | 2.4 | 9.8 | 8.8 | 0.5 | 0.2 | 0.2 |
| 95° | 2.9 | 3.1 | 3.1 | 3.0 | 2.8 | 2.8 | 2.8 |
| 100° | 10.3 | 10.4 | 10.2 | 10.2 | 10.3 | 10.3 | 10.3 |
| 105° | 20.8 | 21.0 | 20.8 | 20.9 | 20.8 | 20.9 | 21.0 |
| 110° | 32.5 | 32.5 | 32.8 | 32.5 | 32.5 | 32.6 | 32.5 |
| 115° | 45.8 | 45.4 | 45.9 | 45.7 | 45.7 | 45.6 | 45.6 |
| 120° | 59.9 | 60.2 | 60.6 | 60.4 | 60.4 | 59.8 | 60.6 |
| 125° | 74.0 | 73.4 | 73.3 | 74.1 | 73.9 | 73.0 | 73.6 |
| 130° | 85.3 | 86.2 | 86.0 | 85.8 | 85.8 | 85.7 | 85.1 |
| 135° | 99.8 | 99.4 | 99.0 | 98.7 | 98.7 | 98.7 | 99.5 |
| 140° | 110.6 | 109.7 | 109.5 | 109.5 | 109.3 | 109.4 | 109.7 |
| 145° | 107.8 | 107.1 | 107.1 | 107.7 | 105.6 | 107.3 | 107.4 |
| 150° | 106.2 | 107.5 | 107.4 | 106.5 | 106.7 | 106.4 | 106.4 |
| 155° | 119.0 | 118.1 | 118.1 | 119.4 | 118.8 | 118.6 | 118.6 |
| 160° | 179.7 | 179.8 | 181.1 | 179.8 | 180.0 | 179.1 | 180.1 |
| 165° | 454.3 | 398.1 | 231.9 | 80.2 | 215.1 | 368.2 | 425.8 |
| 170° | 15.4 | 6.9 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
| | | sITeco |

| C- Ebenen | 105° 255° | 120° 240° | 135° 225° | 150° 210° | 165° 195° | 180° | Phi-Zone | Summe Phi-Zone |
|--------------|-----------------------|--------------|--------------|--------------|--------------|-------|----------------------|-------------------|
| γ | Lichtstärke in cd/klm | | | | | | Lichtstrom in lm/klm | |
| 0° | 242.6 | 242.6 | 242.6 | 242.6 | 242.6 | 242.6 | 1.5 | 1.5 |
| 5° | 238.0 | 231.9 | 233.6 | 232.6 | 233.9 | 234.2 | 12.4 | 13.8 |
| 10° | 243.7 | 238.1 | 236.5 | 231.3 | 214.6 | 218.6 | 26.4 | 40.2 |
| 15° | 248.9 | 261.9 | 238.5 | 202.1 | 187.8 | 193.6 | 38.0 | 78.2 |
| 20° | 254.5 | 255.5 | 213.8 | 154.4 | 124.6 | 100.4 | 41.8 | 120.0 |
| 25° | 244.7 | 214.3 | 150.5 | 76.3 | 42.5 | 32.5 | 40.2 | 160.1 |
| 30° | 229.0 | 165.3 | 74.1 | 24.9 | 9.0 | 5.6 | 39.7 | 199.8 |
| 35° | 235.1 | 122.7 | 26.8 | 3.3 | 0.3 | 0.2 | 45.1 | 245.0 |
| 40° | 231.1 | 69.0 | 13.1 | 1.1 | 0.1 | 0.0 | 53.1 | 298.1 |
| 45° | 176.5 | 41.9 | 7.3 | 3.0 | 1.6 | 1.3 | 58.8 | 356.9 |
| 50° | 118.7 | 15.0 | 1.0 | 0.6 | 0.2 | 0.0 | 61.7 | 418.6 |
| 55° | 57.4 | 3.9 | 0.3 | 0.0 | 0.2 | 0.6 | 56.9 | 475.6 |
| 60° | 24.2 | 1.3 | 0.0 | 0.0 | 0.4 | 0.4 | 48.4 | 524.0 |
| 65° | 7.2 | 0.2 | 0.2 | 0.4 | 0.0 | 0.1 | 36.3 | 560.3 |
| 70° | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 22.8 | 583.1 |
| 75° | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 12.6 | 595.7 |
| 80° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.8 | 601.4 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 604.0 |
| 90° | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 1.1 | 605.1 |
| 95° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 | 1.6 | 606.7 |
| 100° | 10.1 | 10.3 | 10.3 | 10.3 | 10.4 | 10.3 | 5.5 | 612.2 |
| 105° | 20.9 | 20.9 | 20.8 | 20.9 | 20.9 | 20.8 | 11.1 | 623.3 |
| 110° | 32.8 | 32.5 | 32.6 | 32.5 | 32.5 | 32.8 | 16.8 | 640.0 |
| 115° | 45.9 | 45.4 | 45.4 | 45.5 | 45.8 | 45.6 | 22.7 | 662.7 |
| 120° | 60.2 | 60.3 | 60.1 | 60.3 | 60.5 | 60.5 | 28.6 | 691.3 |
| 125° | 73.9 | 73.8 | 74.3 | 73.3 | 73.8 | 74.2 | 33.1 | 724.4 |
| 130° | 86.2 | 85.9 | 84.9 | 86.0 | 85.5 | 84.2 | 36.0 | 760.4 |
| 135° | 99.6 | 99.3 | 99.3 | 99.0 | 99.4 | 99.0 | 38.4 | 798.8 |
| 140° | 109.0 | 109.1 | 109.0 | 109.6 | 109.6 | 110.2 | 38.6 | 837.4 |
| 145° | 107.3 | 106.5 | 107.2 | 107.2 | 108.1 | 106.7 | 33.7 | 871.1 |
| 150° | 106.7 | 107.3 | 106.1 | 107.0 | 107.4 | 107.3 | 29.3 | 900.4 |
| 155° | 119.0 | 118.1 | 119.5 | 118.3 | 118.3 | 117.2 | 27.5 | 927.9 |
| 160° | 179.5 | 180.5 | 178.2 | 180.8 | 181.0 | 180.6 | 33.7 | 961.6 |
| 165° | 351.5 | 186.7 | 44.2 | 180.3 | 326.9 | 398.9 | 38.3 | 999.9 |
| 170° | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 1000.0 |
| 175° | 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 | 1000.0 |

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| UGR-Tabelle | | Standardraum |
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| | | | | | | | | | | | |
|------------------------|--|------|------|------|------|--|------|------|------|------|------|
| 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 | 23,5 | 24,6 | 24,3 | 25,4 | 26,3 | 18,1 | 19,2 | 18,9 | 20,0 | 21,0 |
| | 3H | 25,0 | 26,0 | 25,7 | 26,7 | 27,7 | 18,4 | 19,4 | 19,1 | 20,2 | 21,1 |
| | 4H | 24,6 | 25,5 | 25,4 | 26,3 | 27,4 | 17,8 | 18,7 | 18,6 | 19,5 | 20,6 |
| | 6H | 24,4 | 25,2 | 25,3 | 26,1 | 27,2 | 17,5 | 18,3 | 18,4 | 19,2 | 20,3 |
| | 8H | 24,5 | 25,3 | 25,4 | 26,2 | 27,2 | 17,6 | 18,3 | 18,4 | 19,2 | 20,3 |
| | 12H | 24,3 | 25,0 | 25,2 | 25,9 | 27,0 | 17,3 | 18,0 | 18,2 | 18,9 | 20,1 |
| 4H | 2H | 24,5 | 25,4 | 25,3 | 26,2 | 27,2 | 20,1 | 20,9 | 20,9 | 21,8 | 22,8 |
| | 3H | 25,8 | 26,6 | 26,7 | 27,5 | 28,5 | 20,1 | 20,8 | 20,9 | 21,7 | 22,8 |
| | 4H | 26,1 | 26,8 | 27,0 | 27,7 | 28,8 | 20,0 | 20,6 | 20,9 | 21,5 | 22,6 |
| | 6H | 26,0 | 26,6 | 26,9 | 27,5 | 28,6 | 19,7 | 20,3 | 20,6 | 21,2 | 22,3 |
| | 8H | 26,1 | 26,6 | 27,0 | 27,5 | 28,7 | 19,8 | 20,3 | 20,7 | 21,2 | 22,3 |
| | 12H | 25,9 | 26,3 | 26,8 | 27,3 | 28,5 | 19,5 | 20,0 | 20,5 | 20,9 | 22,1 |
| 8H | 4H | 26,2 | 26,7 | 27,1 | 27,6 | 28,8 | 20,7 | 21,2 | 21,6 | 22,1 | 23,2 |
| | 6H | 26,4 | 26,8 | 27,3 | 27,8 | 28,9 | 20,6 | 21,0 | 21,5 | 21,9 | 23,1 |
| | 8H | 26,4 | 26,8 | 27,3 | 27,7 | 28,9 | 20,5 | 20,9 | 21,5 | 21,8 | 23,0 |
| | 12H | 26,2 | 26,6 | 27,2 | 27,5 | 28,7 | 20,3 | 20,6 | 21,3 | 21,6 | 22,8 |
| 12H | 4H | 26,0 | 26,5 | 26,9 | 27,4 | 28,6 | 20,5 | 21,0 | 21,5 | 21,9 | 23,1 |
| | 6H | 26,2 | 26,6 | 27,2 | 27,5 | 28,8 | 20,6 | 20,9 | 21,5 | 21,9 | 23,1 |
| | 8H | 26,3 | 26,6 | 27,3 | 27,6 | 28,8 | 20,5 | 20,8 | 21,5 | 21,8 | 23,0 |

| | | | | | | | | | | | | | |
|------------------------------|------------------------------|---|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|------|
| Leuchtdichten-Tabelle | | Max. für $\gamma \geq 65^\circ$ | | | | | | | | | | | |
| | | Lichttechnische Abmessungen in mm: L = 900 B = 900 | | | | | | | | | | | |
| C-Ebenen | 0° | 15° 345° | 30° 330° | 45° 315° | 60° 300° | 75° 285° | 90° 270° | 105° 255° | 120° 240° | 135° 225° | 150° 210° | 165° 195° | 180° |
| γ | Leuchtdichte in cd/m² | | | | | | | | | | | | |
| 45° | 12761.9 | 13111.3 | 14446.9 | 15093.5 | 15962.0 | 15710.6 | 14674.5 | 10589.1 | 2513.8 | 436.7 | 182.5 | 94.2 | 77.7 |
| 50° | 17292.8 | 17246.4 | 17995.2 | 19504.4 | 18072.6 | 14392.4 | 11651.1 | 7830.8 | 989.1 | 63.2 | 36.8 | 13.7 | 0.0 |
| 55° | 18039.9 | 20124.5 | 23644.4 | 22265.4 | 16235.1 | 9609.3 | 7040.1 | 4244.8 | 291.0 | 22.8 | 0.4 | 12.2 | 41.0 |
| 60° | 17073.1 | 19043.8 | 25224.0 | 25679.7 | 13270.4 | 6264.7 | 3614.9 | 2050.0 | 111.4 | 0.0 | 0.0 | 34.4 | 29.9 |
| 65° | 14572.9 | 17672.0 | 25195.3 | 23676.1 | 9198.6 | 2784.7 | 1290.1 | 718.6 | 21.1 | 18.9 | 41.9 | 0.0 | 5.9 |
| 70° | 11384.2 | 12528.1 | 21200.6 | 19104.4 | 5851.0 | 997.5 | 295.8 | 167.2 | 2.9 | 0.0 | 0.0 | 0.0 | 40.9 |
| 75° | 7356.4 | 9297.2 | 16534.3 | 14100.3 | 2825.6 | 344.8 | 0.0 | 29.3 | 0.0 | 0.0 | 0.0 | 0.0 | 24.1 |
| 80° | 4531.5 | 5726.5 | 10838.5 | 11093.5 | 1322.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 |
| 85° | 3361.7 | 3558.8 | 10885.8 | 10807.9 | 840.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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Leuchtdichten in cd/m²

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

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