

Lichttechnischer Prüfbefund

Familie
Monsun® Ex

Bestell-Nr.: 51FXB2DP4B0A
EAN: 4058352933800

LP-Nummer
59499_7



Ausführung Prismenwanne, opal, PC, diffus strahlend
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Bemessungswerte Nettolichtstrom = 13730 lm
Systemleistung = 94.7 W
Lichtausbeute = 145 lm/W

Seriendokumentation
06.11.2023

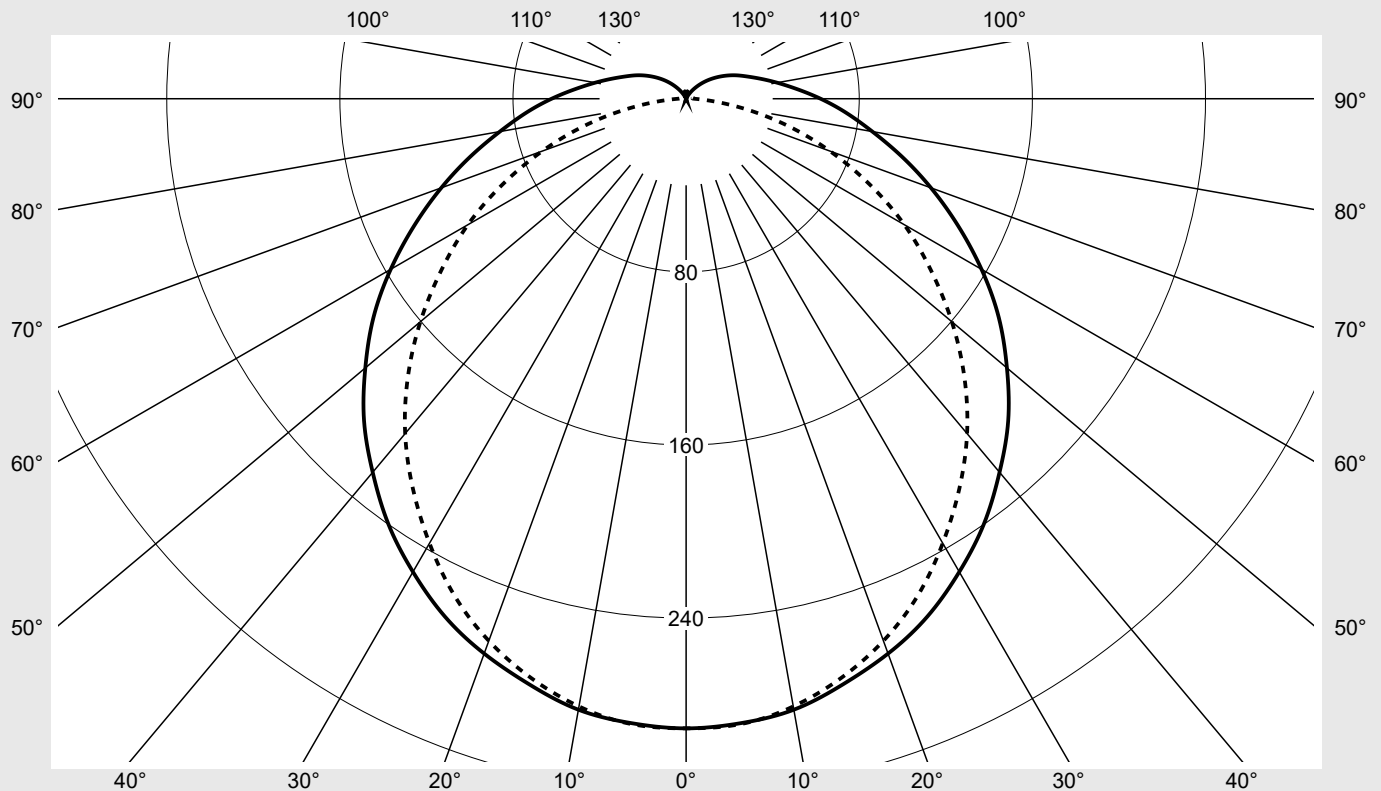
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 291 cd/klm



Klassifizierungen

DIN 5040 A 3 1
CIE N1=43 N2=72 N3=91
N4=92 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 91,7%
 ϕ_o 8,3%

Messbedingungen

DIN EN 13032 und DIN 5032

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| | | |
|--|---|------------------------------------|
| Familie Monsun® Ex | Bestell-Nr.: 51FXB2DP4B0A EAN: 4058352933800 | LP-Nummer 59499_7 |
| Wertetabelle Lichtstärkemessung | | Maximale Lichtstärke |
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| 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° | 290.9 | 290.9 | 290.9 | 290.9 | 290.9 | 290.9 | 290.9 | 1.7 | 1.7 |
| 5° | 289.6 | 290.0 | 289.7 | 289.7 | 289.8 | 289.4 | 290.1 | 13.8 | 15.6 |
| 10° | 286.7 | 286.6 | 285.9 | 285.6 | 285.2 | 285.0 | 285.1 | 27.2 | 42.8 |
| 15° | 280.1 | 280.3 | 279.7 | 279.4 | 277.9 | 277.5 | 277.0 | 39.6 | 82.3 |
| 20° | 272.8 | 272.9 | 271.0 | 269.5 | 268.3 | 266.6 | 266.6 | 50.6 | 132.9 |
| 25° | 263.9 | 262.0 | 261.1 | 258.5 | 255.8 | 253.0 | 253.3 | 59.8 | 192.7 |
| 30° | 252.5 | 251.7 | 248.7 | 245.2 | 240.8 | 238.3 | 237.2 | 67.1 | 259.8 |
| 35° | 239.9 | 239.2 | 235.2 | 230.7 | 225.7 | 221.5 | 220.1 | 72.4 | 332.3 |
| 40° | 225.3 | 224.1 | 220.1 | 213.2 | 208.4 | 202.8 | 202.0 | 75.3 | 407.6 |
| 45° | 210.5 | 208.6 | 204.0 | 197.1 | 189.2 | 184.2 | 181.8 | 76.2 | 483.8 |
| 50° | 193.5 | 192.0 | 186.3 | 179.0 | 170.0 | 162.9 | 160.3 | 74.7 | 558.4 |
| 55° | 176.4 | 173.9 | 167.7 | 159.3 | 150.0 | 141.7 | 138.1 | 71.1 | 629.5 |
| 60° | 157.6 | 154.8 | 149.1 | 139.6 | 129.7 | 120.9 | 116.4 | 65.8 | 695.3 |
| 65° | 138.6 | 135.9 | 129.2 | 119.9 | 109.3 | 98.7 | 93.5 | 58.7 | 754.0 |
| 70° | 120.4 | 117.6 | 110.2 | 100.1 | 88.5 | 77.3 | 70.7 | 50.6 | 804.6 |
| 75° | 103.2 | 100.7 | 93.0 | 81.8 | 68.9 | 56.6 | 49.0 | 42.1 | 846.7 |
| 80° | 87.4 | 84.9 | 77.3 | 65.7 | 51.6 | 37.5 | 28.4 | 33.7 | 880.4 |
| 85° | 74.2 | 71.5 | 63.6 | 52.1 | 37.6 | 22.0 | 11.8 | 26.4 | 906.8 |
| 90° | 62.1 | 59.4 | 52.2 | 41.1 | 27.4 | 12.9 | 3.7 | 20.6 | 927.4 |
| 95° | 51.4 | 49.2 | 42.6 | 32.5 | 20.3 | 8.6 | 3.2 | 16.4 | 943.8 |
| 100° | 42.7 | 40.7 | 34.8 | 26.1 | 16.0 | 6.5 | 2.9 | 13.2 | 957.1 |
| 105° | 35.6 | 33.8 | 28.9 | 21.6 | 13.0 | 4.7 | 2.5 | 10.7 | 967.7 |
| 110° | 30.0 | 28.5 | 24.4 | 18.1 | 10.4 | 3.2 | 2.3 | 8.6 | 976.4 |
| 115° | 25.6 | 24.2 | 20.5 | 14.8 | 7.8 | 2.1 | 2.0 | 6.9 | 983.3 |
| 120° | 21.3 | 20.1 | 16.8 | 11.6 | 5.6 | 1.7 | 1.8 | 5.3 | 988.6 |
| 125° | 17.3 | 16.2 | 13.2 | 8.7 | 3.6 | 1.5 | 1.5 | 3.9 | 992.5 |
| 130° | 13.5 | 12.5 | 9.9 | 6.0 | 1.9 | 1.2 | 1.3 | 2.7 | 995.3 |
| 135° | 9.9 | 9.1 | 6.8 | 3.6 | 1.0 | 1.1 | 1.2 | 1.7 | 997.0 |
| 140° | 6.7 | 6.0 | 4.1 | 1.6 | 0.9 | 1.0 | 1.0 | 1.0 | 998.0 |
| 145° | 3.9 | 3.3 | 1.9 | 0.8 | 1.0 | 1.1 | 1.2 | 0.6 | 998.6 |
| 150° | 1.6 | 1.3 | 0.7 | 0.8 | 1.0 | 1.1 | 1.1 | 0.3 | 998.9 |
| 155° | 0.9 | 0.9 | 0.9 | 0.9 | 1.0 | 1.1 | 1.1 | 0.2 | 999.1 |
| 160° | 1.1 | 1.2 | 1.2 | 1.2 | 1.2 | 1.1 | 1.1 | 0.2 | 999.3 |
| 165° | 2.2 | 2.2 | 2.2 | 2.0 | 1.8 | 1.6 | 1.6 | 0.3 | 999.6 |
| 170° | 3.4 | 3.4 | 3.2 | 3.0 | 2.6 | 2.4 | 2.4 | 0.3 | 999.9 |
| 175° | 2.7 | 2.7 | 2.6 | 2.5 | 2.4 | 2.4 | 2.3 | 0.1 | 1000.0 |
| 180° | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 | 0.0 | 1000.0 |

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| UGR-Tabelle | | Standardraum | | | | | | | | | |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| Raumabmessungen | | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 21,0 | 22,7 | 21,3 | 23,0 | 23,4 | 20,4 | 22,2 | 20,8 | 22,5 | 22,8 |
| | 3H | 22,9 | 24,5 | 23,3 | 24,8 | 25,2 | 21,9 | 23,5 | 22,3 | 23,9 | 24,2 |
| | 4H | 23,8 | 25,3 | 24,2 | 25,7 | 26,1 | 22,5 | 24,0 | 22,9 | 24,4 | 24,8 |
| | 6H | 24,7 | 26,1 | 25,1 | 26,5 | 26,9 | 22,9 | 24,4 | 23,3 | 24,7 | 25,1 |
| | 8H | 25,2 | 26,5 | 25,6 | 26,9 | 27,3 | 23,1 | 24,4 | 23,5 | 24,8 | 25,2 |
| | 12H | 25,6 | 26,9 | 26,1 | 27,3 | 27,7 | 23,1 | 24,4 | 23,6 | 24,8 | 25,2 |
| 4H | 2H | 21,7 | 23,2 | 22,1 | 23,6 | 23,9 | 21,3 | 22,8 | 21,7 | 23,1 | 23,5 |
| | 3H | 23,8 | 25,1 | 24,2 | 25,5 | 25,9 | 23,0 | 24,3 | 23,4 | 24,7 | 25,1 |
| | 4H | 24,9 | 26,1 | 25,3 | 26,5 | 26,9 | 23,7 | 24,9 | 24,1 | 25,3 | 25,7 |
| | 6H | 26,0 | 27,0 | 26,4 | 27,5 | 27,9 | 24,2 | 25,3 | 24,7 | 25,7 | 26,2 |
| | 8H | 26,5 | 27,5 | 27,0 | 27,9 | 28,4 | 24,4 | 25,4 | 24,9 | 25,8 | 26,3 |
| | 12H | 27,1 | 27,9 | 27,5 | 28,4 | 28,9 | 24,5 | 25,4 | 25,0 | 25,9 | 26,4 |
| 8H | 4H | 25,3 | 26,2 | 25,7 | 26,7 | 27,1 | 24,2 | 25,2 | 24,7 | 25,6 | 26,1 |
| | 6H | 26,5 | 27,4 | 27,0 | 27,8 | 28,3 | 25,0 | 25,8 | 25,4 | 26,3 | 26,8 |
| | 8H | 27,2 | 27,9 | 27,7 | 28,4 | 28,9 | 25,2 | 26,0 | 25,7 | 26,5 | 27,0 |
| | 12H | 27,9 | 28,6 | 28,4 | 29,0 | 29,6 | 25,5 | 26,1 | 26,0 | 26,6 | 27,1 |
| 12H | 4H | 25,3 | 26,2 | 25,8 | 26,7 | 27,1 | 24,4 | 25,2 | 24,9 | 25,7 | 26,2 |
| | 6H | 26,6 | 27,4 | 27,1 | 27,9 | 28,4 | 25,2 | 25,9 | 25,7 | 26,4 | 26,9 |
| | 8H | 27,4 | 28,0 | 27,9 | 28,5 | 29,1 | 25,6 | 26,2 | 26,1 | 26,7 | 27,2 |

| | | | | | |
|--|--|------------|--------------|-------------|--------------|
| Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: L = 1580 B = 155 | H(C0) = 50 | H(C180) = 50 | H(C90) = 50 | H(C270) = 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° | | 12617.7 | 12531.5 | 12486.0 | 12500.0 | 12621.4 | 13110.5 | 13974.1 |
| 50° | | 12191.6 | 12127.0 | 12021.5 | 12020.4 | 12105.6 | 12511.5 | 13472.2 |
| 55° | | 11804.5 | 11669.8 | 11533.2 | 11468.1 | 11552.9 | 11910.9 | 12910.9 |
| 60° | | 11338.3 | 11173.8 | 11059.9 | 10917.5 | 10960.5 | 11320.7 | 12377.5 |
| 65° | | 10866.4 | 10696.6 | 10498.6 | 10346.5 | 10318.5 | 10525.3 | 11613.9 |
| 70° | | 10462.7 | 10264.7 | 9976.1 | 9719.4 | 9559.1 | 9650.0 | 10666.4 |
| 75° | | 10141.1 | 9943.5 | 9586.3 | 9159.1 | 8752.2 | 8599.6 | 9496.6 |
| 80° | | 9971.6 | 9741.1 | 9334.0 | 8760.5 | 8048.9 | 7345.6 | 7763.0 |
| 85° | | 10181.7 | 9875.9 | 9348.7 | 8683.9 | 7663.5 | 6145.9 | 5560.0 |

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Leuchtdichten in cd/m²

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

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