

Lichttechnischer Prüfbefund

Familie
Monsun® 21

Bestell-Nr.: 51FB20DL447K3H
EAN: 4069025131744

LP-Nummer
59394_65



Ausführung Prismenwanne, opal, PC, breit strahlend
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-DALI
Einstellung AC-Betrieb
Bemessungswerte Nettolichtstrom = 4320 lm
 Systemleistung = 30.4 W
 Lichtausbeute = 142.1 lm/W

Seriendokumentation
05.02.2026

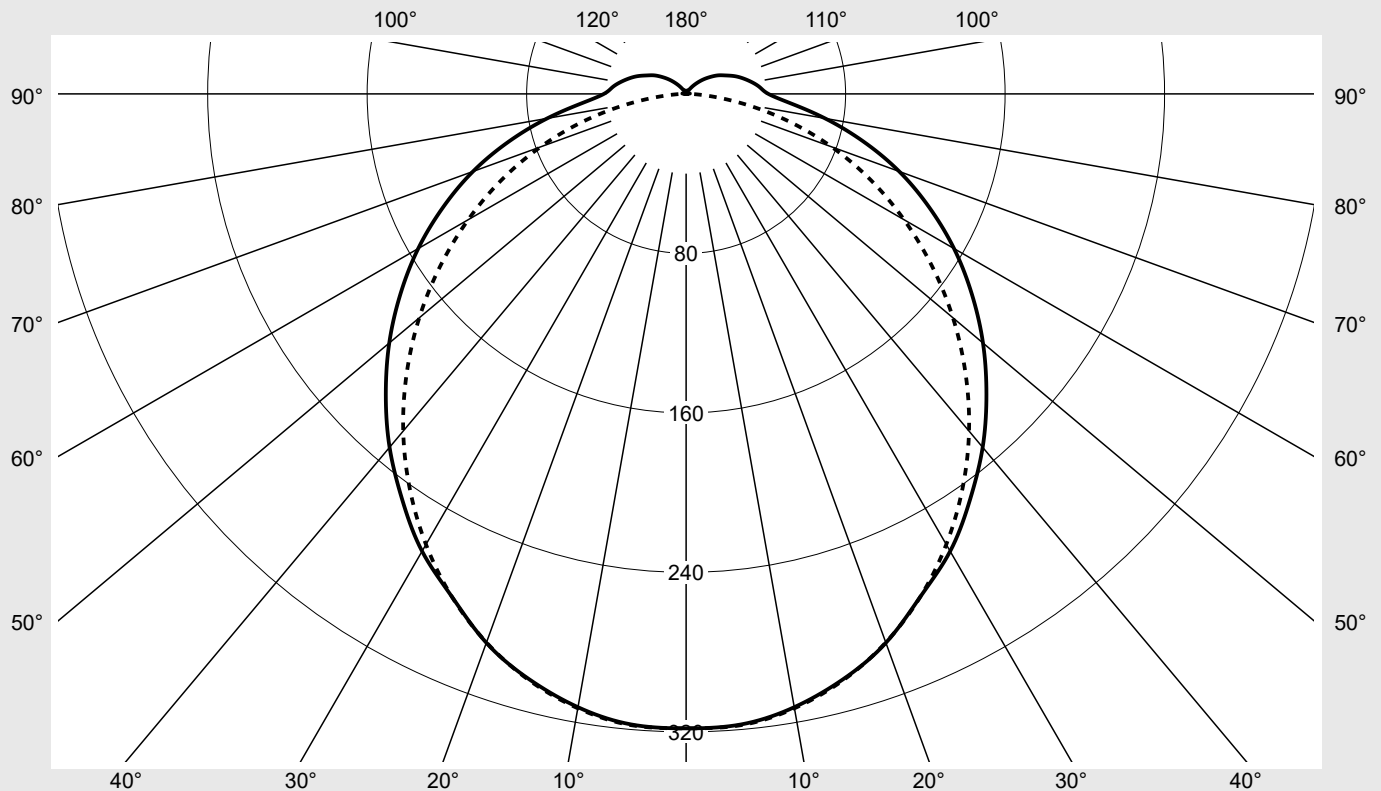
sitEco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 318 cd/klm



Klassifizierungen

DIN 5040 A 4 1
 CIE N1=45 N2=75 N3=93
 N4=94 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 93,7%
 ϕ_o 6,3%

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° | 318.2 | 318.2 | 318.2 | 318.2 | 318.2 | 318.2 | 318.2 | 1.9 | 1.9 |
| 5° | 317.5 | 317.5 | 315.1 | 315.9 | 316.6 | 317.2 | 317.8 | 15.1 | 17.0 |
| 10° | 312.4 | 312.6 | 310.3 | 310.8 | 311.5 | 312.2 | 312.9 | 29.7 | 46.7 |
| 15° | 304.0 | 304.5 | 302.1 | 302.5 | 303.1 | 303.6 | 304.5 | 43.0 | 89.7 |
| 20° | 293.0 | 293.3 | 291.0 | 291.0 | 291.4 | 291.9 | 292.8 | 54.7 | 144.5 |
| 25° | 278.2 | 280.0 | 277.5 | 276.9 | 276.9 | 277.3 | 278.2 | 64.3 | 208.8 |
| 30° | 264.9 | 265.0 | 262.4 | 260.7 | 260.0 | 260.0 | 261.0 | 71.8 | 280.6 |
| 35° | 248.3 | 248.5 | 245.7 | 243.1 | 241.2 | 240.6 | 241.7 | 76.7 | 357.3 |
| 40° | 231.4 | 230.9 | 227.8 | 224.4 | 221.2 | 219.7 | 220.8 | 79.3 | 436.6 |
| 45° | 213.0 | 212.5 | 208.9 | 204.3 | 200.0 | 197.3 | 198.2 | 79.4 | 515.9 |
| 50° | 194.4 | 193.4 | 189.5 | 184.3 | 178.4 | 174.4 | 174.7 | 77.3 | 593.2 |
| 55° | 174.9 | 174.0 | 169.9 | 163.6 | 156.5 | 151.3 | 150.6 | 73.2 | 666.4 |
| 60° | 155.2 | 153.6 | 149.3 | 142.2 | 134.7 | 128.1 | 126.2 | 67.1 | 733.5 |
| 65° | 134.5 | 133.3 | 127.9 | 120.6 | 112.6 | 105.3 | 102.1 | 59.5 | 793.0 |
| 70° | 113.8 | 111.2 | 106.2 | 98.6 | 90.1 | 81.8 | 77.7 | 50.1 | 843.1 |
| 75° | 91.9 | 90.6 | 84.2 | 76.2 | 67.3 | 58.7 | 53.5 | 39.7 | 882.8 |
| 80° | 70.8 | 68.8 | 62.9 | 54.4 | 45.2 | 36.1 | 30.1 | 28.6 | 911.4 |
| 85° | 52.2 | 50.3 | 44.7 | 36.3 | 26.8 | 17.6 | 11.2 | 18.9 | 930.2 |
| 90° | 41.3 | 39.2 | 33.7 | 25.7 | 16.7 | 7.7 | 2.0 | 13.2 | 943.5 |
| 95° | 37.2 | 35.5 | 30.5 | 23.1 | 14.2 | 5.7 | 1.8 | 11.7 | 955.1 |
| 100° | 33.6 | 31.9 | 27.2 | 20.0 | 11.9 | 4.1 | 1.6 | 10.1 | 965.3 |
| 105° | 29.8 | 28.2 | 23.6 | 17.2 | 9.5 | 2.6 | 1.4 | 8.5 | 973.8 |
| 110° | 26.0 | 24.2 | 20.2 | 14.2 | 7.2 | 1.5 | 1.2 | 7.0 | 980.8 |
| 115° | 21.9 | 20.5 | 16.9 | 11.4 | 5.1 | 1.4 | 1.2 | 5.5 | 986.3 |
| 120° | 18.6 | 17.0 | 13.7 | 8.7 | 3.2 | 1.3 | 1.1 | 4.3 | 990.6 |
| 125° | 14.8 | 13.4 | 10.4 | 6.0 | 1.7 | 1.3 | 1.1 | 3.1 | 993.6 |
| 130° | 11.3 | 10.0 | 7.4 | 3.7 | 1.5 | 1.3 | 1.1 | 2.1 | 995.7 |
| 135° | 7.8 | 6.8 | 4.7 | 1.9 | 1.5 | 1.3 | 1.0 | 1.3 | 997.1 |
| 140° | 4.8 | 4.0 | 2.4 | 1.7 | 1.5 | 1.2 | 1.0 | 0.8 | 997.9 |
| 145° | 2.3 | 2.1 | 1.9 | 1.7 | 1.5 | 1.3 | 1.2 | 0.5 | 998.4 |
| 150° | 2.0 | 2.0 | 1.9 | 1.7 | 1.5 | 1.4 | 1.3 | 0.5 | 998.9 |
| 155° | 1.9 | 1.9 | 1.8 | 1.7 | 1.5 | 1.4 | 1.3 | 0.4 | 999.3 |
| 160° | 1.8 | 1.8 | 1.8 | 1.6 | 1.5 | 1.5 | 1.4 | 0.3 | 999.6 |
| 165° | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.5 | 1.4 | 0.2 | 999.8 |
| 170° | 1.5 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 0.1 | 999.9 |
| 175° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 0.1 | 1000.0 |
| 180° | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 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 | 19,9 | 21,7 | 20,3 | 22,0 | 22,3 | 19,6 | 21,4 | 20,0 | 21,7 | 22,0 |
| | 3H | 21,8 | 23,3 | 22,1 | 23,7 | 24,0 | 21,2 | 22,8 | 21,6 | 23,1 | 23,5 |
| | 4H | 22,6 | 24,1 | 23,0 | 24,4 | 24,8 | 21,8 | 23,3 | 22,2 | 23,6 | 24,0 |
| | 6H | 23,3 | 24,7 | 23,7 | 25,1 | 25,5 | 22,2 | 23,6 | 22,6 | 24,0 | 24,4 |
| | 8H | 23,7 | 25,0 | 24,1 | 25,3 | 25,7 | 22,4 | 23,7 | 22,8 | 24,1 | 24,5 |
| | 12H | 24,0 | 25,2 | 24,4 | 25,6 | 26,0 | 22,4 | 23,7 | 22,9 | 24,1 | 24,5 |
| 4H | 2H | 20,7 | 22,1 | 21,1 | 22,5 | 22,9 | 20,4 | 21,9 | 20,8 | 22,3 | 22,6 |
| | 3H | 22,7 | 24,0 | 23,1 | 24,3 | 24,8 | 22,2 | 23,5 | 22,6 | 23,8 | 24,3 |
| | 4H | 23,7 | 24,8 | 24,1 | 25,2 | 25,6 | 22,9 | 24,1 | 23,4 | 24,5 | 24,9 |
| | 6H | 24,5 | 25,6 | 25,0 | 26,0 | 26,4 | 23,4 | 24,5 | 23,9 | 24,9 | 25,4 |
| | 8H | 24,9 | 25,9 | 25,4 | 26,3 | 26,8 | 23,6 | 24,6 | 24,1 | 25,0 | 25,5 |
| | 12H | 25,3 | 26,1 | 25,8 | 26,6 | 27,1 | 23,7 | 24,6 | 24,2 | 25,0 | 25,5 |
| 8H | 4H | 24,0 | 24,9 | 24,5 | 25,4 | 25,9 | 23,4 | 24,3 | 23,8 | 24,7 | 25,2 |
| | 6H | 25,0 | 25,8 | 25,5 | 26,3 | 26,8 | 24,0 | 24,8 | 24,5 | 25,3 | 25,8 |
| | 8H | 25,5 | 26,3 | 26,0 | 26,7 | 27,2 | 24,3 | 25,0 | 24,8 | 25,5 | 26,0 |
| | 12H | 26,1 | 26,7 | 26,6 | 27,1 | 27,7 | 24,4 | 25,0 | 24,9 | 25,5 | 26,1 |
| 12H | 4H | 24,0 | 24,9 | 24,5 | 25,4 | 25,8 | 23,5 | 24,3 | 23,9 | 24,7 | 25,2 |
| | 6H | 25,1 | 25,8 | 25,6 | 26,3 | 26,8 | 24,2 | 24,9 | 24,7 | 25,4 | 25,9 |
| | 8H | 25,7 | 26,3 | 26,2 | 26,8 | 27,3 | 24,5 | 25,1 | 25,0 | 25,6 | 26,1 |

| | | | | |
|--|---|-----------------|--------------------|---------------------|
| Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: | L = 1299 | H(C0) = 21 | H(C180) = 21 |
| | | B = 87 | H(C90) = 21 | H(C270) = 21 |

| 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° | | 9277.6 | 9284.0 | 9276.6 | 9343.4 | 9528.0 | 9891.4 | 10545.0 | |
| 50° | | 8977.9 | 8963.1 | 8952.0 | 9003.3 | 9141.1 | 9487.4 | 10195.5 | |
| 55° | | 8669.5 | 8659.3 | 8641.9 | 8652.8 | 8745.2 | 9070.3 | 9806.9 | |
| 60° | | 8366.5 | 8324.3 | 8292.2 | 8261.9 | 8348.5 | 8624.7 | 9388.0 | |
| 65° | | 8016.3 | 7990.9 | 7896.3 | 7845.1 | 7903.3 | 8155.9 | 8929.6 | |
| 70° | | 7645.4 | 7525.7 | 7435.3 | 7346.9 | 7348.0 | 7530.0 | 8314.2 | |
| 75° | | 7140.8 | 7097.1 | 6870.4 | 6700.9 | 6610.4 | 6713.7 | 7449.0 | |
| 80° | | 6575.7 | 6451.3 | 6203.4 | 5888.8 | 5642.9 | 5512.5 | 6071.5 | |
| 85° | | 6085.9 | 5943.0 | 5624.6 | 5167.8 | 4623.7 | 4068.7 | 4142.0 | |

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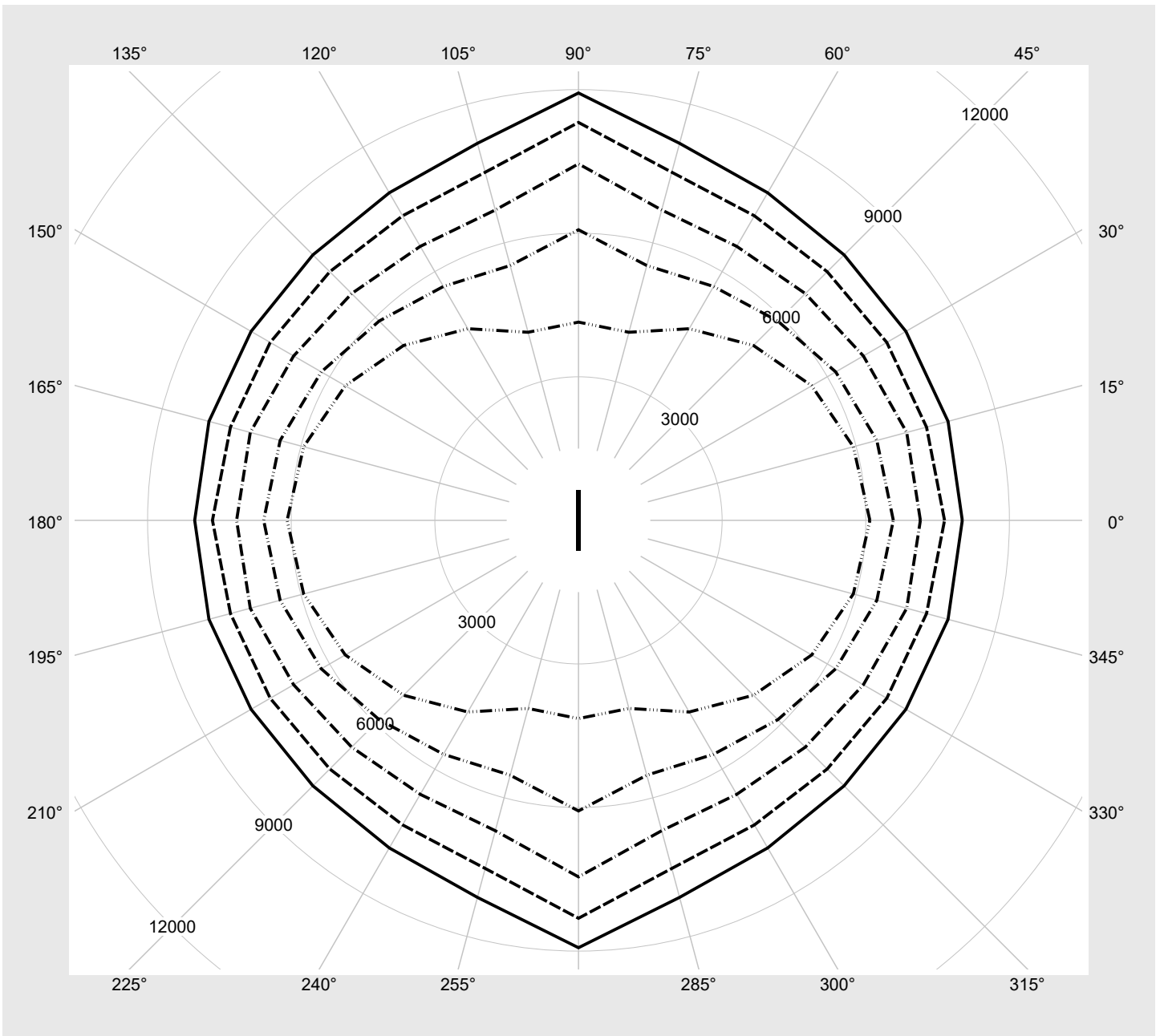
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Leuchtdichten in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°



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|---------------------------|---------------------------|---------------|
| Dimmstufen-Tabelle | Umgebungstemperatur: 25°C | sITeco |
|---------------------------|---------------------------|---------------|

| Lichtstrom [%] | Dimmstufe linear | Dimmstufe logarithmisch | Lichtstrom [lm] | Systemleistung [W] |
|----------------|------------------|-------------------------|-----------------|--------------------|
| 100 | 254 | 254 | 4320 | 30.4 |
| 95 | 241 | 252 | 4108 | 29.3 |
| 90 | 228 | 250 | 3892 | 28.0 |
| 85 | 215 | 248 | 3678 | 26.8 |
| 80 | 202 | 246 | 3463 | 25.6 |
| 75 | 189 | 243 | 3246 | 24.3 |
| 70 | 176 | 241 | 3030 | 23.1 |
| 65 | 163 | 238 | 2811 | 21.7 |
| 60 | 150 | 235 | 2591 | 20.5 |
| 55 | 137 | 231 | 2370 | 19.1 |
| 50 | 125 | 228 | 2165 | 17.9 |
| 45 | 112 | 224 | 1942 | 16.5 |
| 40 | 100 | 220 | 1736 | 15.2 |
| 35 | 87 | 215 | 1511 | 13.9 |
| 30 | 75 | 209 | 1303 | 12.6 |
| 25 | 62 | 202 | 1076 | 11.4 |
| 20 | 50 | 194 | 867 | 10.2 |
| 15 | 37 | 183 | 639 | 9.0 |
| 10 | 25 | 169 | 428 | 7.9 |
| 5 | 13 | 145 | 217 | 7.0 |
| 4 | 11 | 139 | 181 | 6.8 |