

Lichttechnischer Prüfbefund

Familie
Monsun® 21

Bestell-Nr.: 51FB10ML660K
EAN: 4069025131607

LP-Nummer
59393_24



Ausführung Prismenwanne, opal, PMMA, extrem breit strahlend
Bestückung LED 6500 K | CRI ≥ 80
Betriebsgerät EVG-Multilumen
Bemessungswerte Nettolichtstrom = 5960 lm
Systemleistung = 34.1 W
Lichtausbeute = 174.8 lm/W

Seriendokumentation
08.05.2024

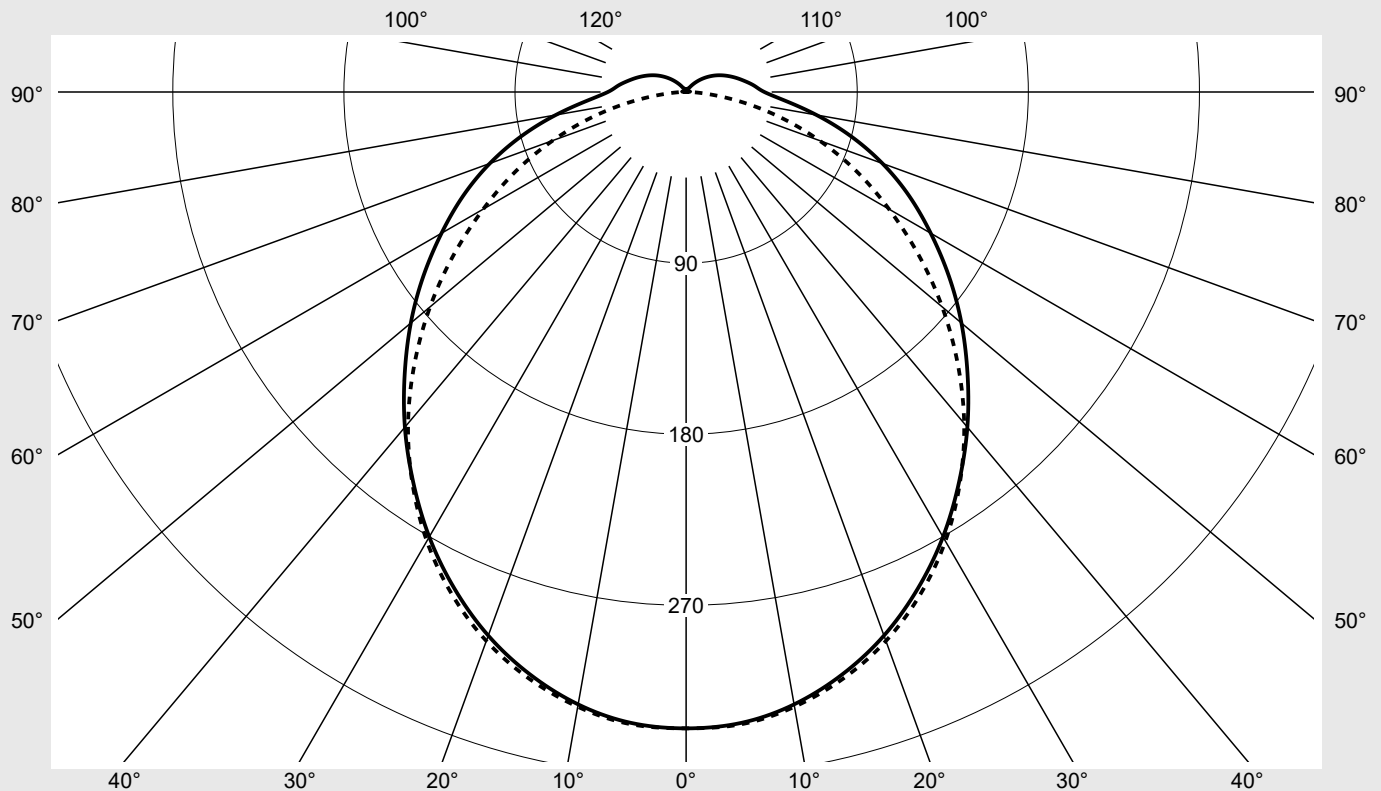
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 335 cd/klm



Klassifizierungen

DIN 5040 A 4 1
CIE N1=46 N2=76 N3=93
N4=94 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 93,9%
 ϕ_o 6,1%

Messbedingungen

DIN EN 13032 und DIN 5032

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| | | |
|--|---|-------------------------------------|
| Familie Monsun® 21 | Bestell-Nr.: 51FB10ML660K EAN: 4069025131607 | LP-Nummer 59393_24 |
| 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° | 334.7 | 334.7 | 334.7 | 334.7 | 334.7 | 334.7 | 334.7 | 2.0 | 2.0 |
| 5° | 333.1 | 333.6 | 331.1 | 331.9 | 332.7 | 333.2 | 333.8 | 15.9 | 17.9 |
| 10° | 327.1 | 327.9 | 325.6 | 326.0 | 327.2 | 327.9 | 328.3 | 31.1 | 49.0 |
| 15° | 317.2 | 318.4 | 316.4 | 316.9 | 317.9 | 318.6 | 319.4 | 45.1 | 94.1 |
| 20° | 304.3 | 305.5 | 304.0 | 304.0 | 305.5 | 306.0 | 307.3 | 57.2 | 151.3 |
| 25° | 288.3 | 289.5 | 288.3 | 288.0 | 289.4 | 289.8 | 291.5 | 67.0 | 218.3 |
| 30° | 270.2 | 271.6 | 270.4 | 269.7 | 270.4 | 271.0 | 272.7 | 74.2 | 292.5 |
| 35° | 250.3 | 251.6 | 250.4 | 249.2 | 249.0 | 249.3 | 251.0 | 78.6 | 371.1 |
| 40° | 230.1 | 230.9 | 229.3 | 227.2 | 226.1 | 225.6 | 227.5 | 80.3 | 451.4 |
| 45° | 209.3 | 209.8 | 207.4 | 204.4 | 202.0 | 200.5 | 202.0 | 79.4 | 530.9 |
| 50° | 189.0 | 188.7 | 186.0 | 181.6 | 177.7 | 174.7 | 175.8 | 76.4 | 607.2 |
| 55° | 168.7 | 168.2 | 164.8 | 159.1 | 153.5 | 149.2 | 149.2 | 71.4 | 678.6 |
| 60° | 148.6 | 147.7 | 143.7 | 136.7 | 130.2 | 124.3 | 123.2 | 64.8 | 743.4 |
| 65° | 129.5 | 127.8 | 123.0 | 114.9 | 108.3 | 100.8 | 99.1 | 57.1 | 800.4 |
| 70° | 109.9 | 108.0 | 102.2 | 93.4 | 85.8 | 77.4 | 74.6 | 48.0 | 848.4 |
| 75° | 89.7 | 87.9 | 81.7 | 72.5 | 63.8 | 55.3 | 51.1 | 38.1 | 886.5 |
| 80° | 69.6 | 67.6 | 61.9 | 52.4 | 43.1 | 34.0 | 28.9 | 27.7 | 914.2 |
| 85° | 52.2 | 49.9 | 44.6 | 35.4 | 25.7 | 16.3 | 10.6 | 18.5 | 932.7 |
| 90° | 41.2 | 39.2 | 34.0 | 25.7 | 16.3 | 7.4 | 2.3 | 13.2 | 945.9 |
| 95° | 36.2 | 34.5 | 30.1 | 22.6 | 13.9 | 5.6 | 2.0 | 11.4 | 957.3 |
| 100° | 31.8 | 30.4 | 26.2 | 19.4 | 11.5 | 4.0 | 1.7 | 9.7 | 967.1 |
| 105° | 27.9 | 26.5 | 22.5 | 16.5 | 9.2 | 2.5 | 1.5 | 8.1 | 975.2 |
| 110° | 24.2 | 22.6 | 19.2 | 13.5 | 6.9 | 1.5 | 1.3 | 6.6 | 981.8 |
| 115° | 20.8 | 19.1 | 16.0 | 10.8 | 4.9 | 1.4 | 1.2 | 5.2 | 987.0 |
| 120° | 17.3 | 15.9 | 12.9 | 8.1 | 3.1 | 1.3 | 1.2 | 4.0 | 991.0 |
| 125° | 13.9 | 12.5 | 9.8 | 5.6 | 1.6 | 1.3 | 1.1 | 2.9 | 993.8 |
| 130° | 10.5 | 9.4 | 7.0 | 3.5 | 1.5 | 1.3 | 1.1 | 2.0 | 995.8 |
| 135° | 7.3 | 6.4 | 4.4 | 1.9 | 1.5 | 1.2 | 1.0 | 1.3 | 997.1 |
| 140° | 4.5 | 3.8 | 2.3 | 1.7 | 1.5 | 1.2 | 1.1 | 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 | 1.4 | 0.4 | 999.3 |
| 160° | 1.8 | 1.8 | 1.7 | 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 | 1.5 | 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 | 1.5 | 0.1 | 1000.0 |
| 180° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 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 | 20,9 | 22,6 | 21,2 | 22,9 | 23,2 | 20,7 | 22,4 | 21,0 | 22,7 | 23,0 |
| | 3H | 22,7 | 24,2 | 23,0 | 24,6 | 24,9 | 22,1 | 23,7 | 22,5 | 24,0 | 24,4 |
| | 4H | 23,5 | 25,0 | 23,9 | 25,3 | 25,7 | 22,7 | 24,2 | 23,1 | 24,5 | 24,9 |
| | 6H | 24,3 | 25,6 | 24,7 | 26,0 | 26,4 | 23,1 | 24,5 | 23,5 | 24,9 | 25,2 |
| | 8H | 24,6 | 25,9 | 25,0 | 26,3 | 26,7 | 23,3 | 24,6 | 23,7 | 24,9 | 25,3 |
| | 12H | 24,9 | 26,1 | 25,3 | 26,5 | 26,9 | 23,3 | 24,5 | 23,7 | 24,9 | 25,4 |
| 4H | 2H | 21,6 | 23,0 | 22,0 | 23,4 | 23,8 | 21,4 | 22,9 | 21,8 | 23,2 | 23,6 |
| | 3H | 23,6 | 24,8 | 24,0 | 25,2 | 25,6 | 23,1 | 24,4 | 23,5 | 24,7 | 25,1 |
| | 4H | 24,6 | 25,7 | 25,0 | 26,1 | 26,5 | 23,8 | 24,9 | 24,2 | 25,3 | 25,8 |
| | 6H | 25,5 | 26,5 | 25,9 | 26,9 | 27,3 | 24,3 | 25,3 | 24,8 | 25,7 | 26,2 |
| | 8H | 25,9 | 26,8 | 26,3 | 27,2 | 27,7 | 24,5 | 25,4 | 24,9 | 25,8 | 26,3 |
| | 12H | 26,3 | 27,1 | 26,7 | 27,5 | 28,0 | 24,6 | 25,4 | 25,0 | 25,9 | 26,3 |
| 8H | 4H | 24,9 | 25,8 | 25,3 | 26,3 | 26,7 | 24,2 | 25,1 | 24,7 | 25,6 | 26,1 |
| | 6H | 26,0 | 26,7 | 26,4 | 27,2 | 27,7 | 24,9 | 25,7 | 25,4 | 26,1 | 26,6 |
| | 8H | 26,5 | 27,2 | 27,0 | 27,7 | 28,2 | 25,1 | 25,8 | 25,6 | 26,3 | 26,8 |
| | 12H | 27,0 | 27,6 | 27,5 | 28,1 | 28,6 | 25,3 | 25,9 | 25,8 | 26,4 | 26,9 |
| 12H | 4H | 24,9 | 25,8 | 25,4 | 26,2 | 26,7 | 24,3 | 25,1 | 24,8 | 25,6 | 26,1 |
| | 6H | 26,0 | 26,7 | 26,5 | 27,2 | 27,7 | 25,0 | 25,7 | 25,5 | 26,2 | 26,7 |
| | 8H | 26,6 | 27,2 | 27,1 | 27,7 | 28,2 | 25,3 | 25,9 | 25,8 | 26,4 | 26,9 |

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

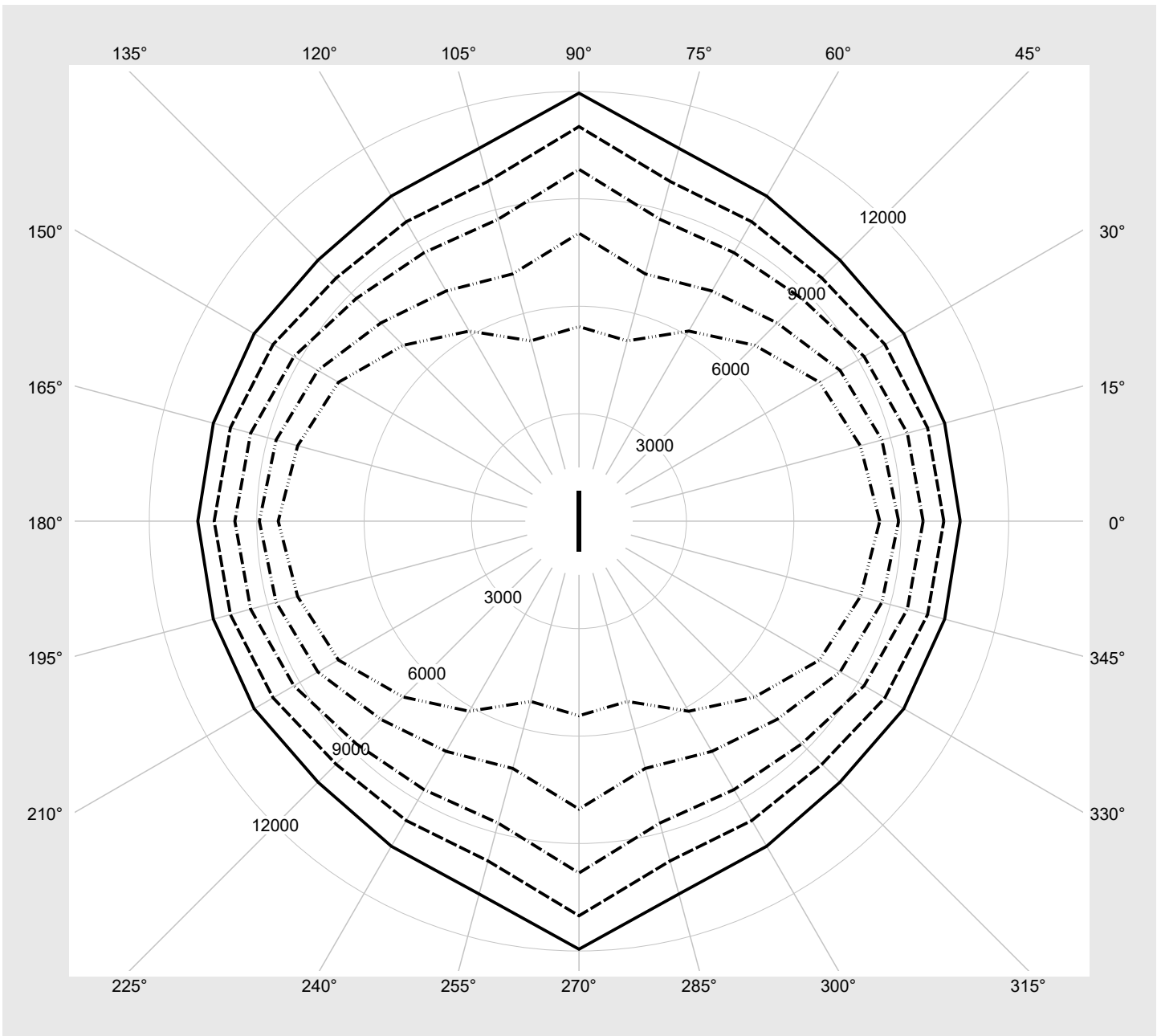
| C-Ebenen | γ | Leuchtdichte in cd/m ² | | | | | | | |
|----------|----------|-----------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
| | | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° | |
| 45° | | 12575.1 | 12644.8 | 12711.7 | 12893.4 | 13276.0 | 13871.7 | 14827.5 | |
| 50° | | 12044.5 | 12069.4 | 12122.3 | 12244.3 | 12566.3 | 13112.9 | 14151.5 | |
| 55° | | 11533.4 | 11553.3 | 11563.3 | 11609.0 | 11834.8 | 12345.0 | 13408.6 | |
| 60° | | 11050.1 | 11039.8 | 11011.1 | 10963.1 | 11137.9 | 11545.0 | 12643.0 | |
| 65° | | 10646.5 | 10571.7 | 10474.8 | 10307.0 | 10481.2 | 10776.9 | 11950.3 | |
| 70° | | 10188.4 | 10078.5 | 9865.7 | 9595.7 | 9651.7 | 9821.3 | 11017.2 | |
| 75° | | 9611.4 | 9493.6 | 9194.0 | 8794.2 | 8655.9 | 8726.5 | 9823.4 | |
| 80° | | 8927.2 | 8757.2 | 8420.3 | 7825.9 | 7421.1 | 7147.7 | 8039.3 | |
| 85° | | 8399.6 | 8134.9 | 7756.1 | 6943.3 | 6128.8 | 5210.8 | 5432.0 | |

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Leuchtdichten in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°

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Multilumen-Tabelle

Umgebungstemperatur: 25°C



| DIP-Stufe | Schalterstellung | | | Lichtstrom [lm] | Systemleistung [W] |
|-----------|------------------|---|---|--------------------|-----------------------|
| | 1 | 2 | 3 | | |
| 1 | A | C | E | 5960 | 34.1 |
| 2 | A | C | F | 5744 | 32.8 |
| 3 | A | D | E | 5466 | 31.2 |
| 4 | A | D | F | 5023 | 29.6 |
| 5 | B | C | E | 4663 | 26.5 |
| 6 | B | C | F | 4447 | 25.3 |
| 7 | B | D | E | 3994 | 22.8 |
| 8 | B | D | F | 3850 | 21.9 |