

Lichttechnischer Prüfbefund

Familie
Monsun® 21

Bestell-Nr.: 51FB12MP480B
EAN: 4058352520116

LP-Nummer
59014_7



Ausführung Prismenwanne, opal, PMMA, medium strahlend
Bestückung LED 4000 K | CRI ≥ 80
Betriebsgerät EVG-Multilumen
Bemessungswerte Nettolichtstrom = 8100 lm
 Systemleistung = 53.6 W
 Lichtausbeute = 151.1 lm/W

Seriendokumentation
12.01.2023

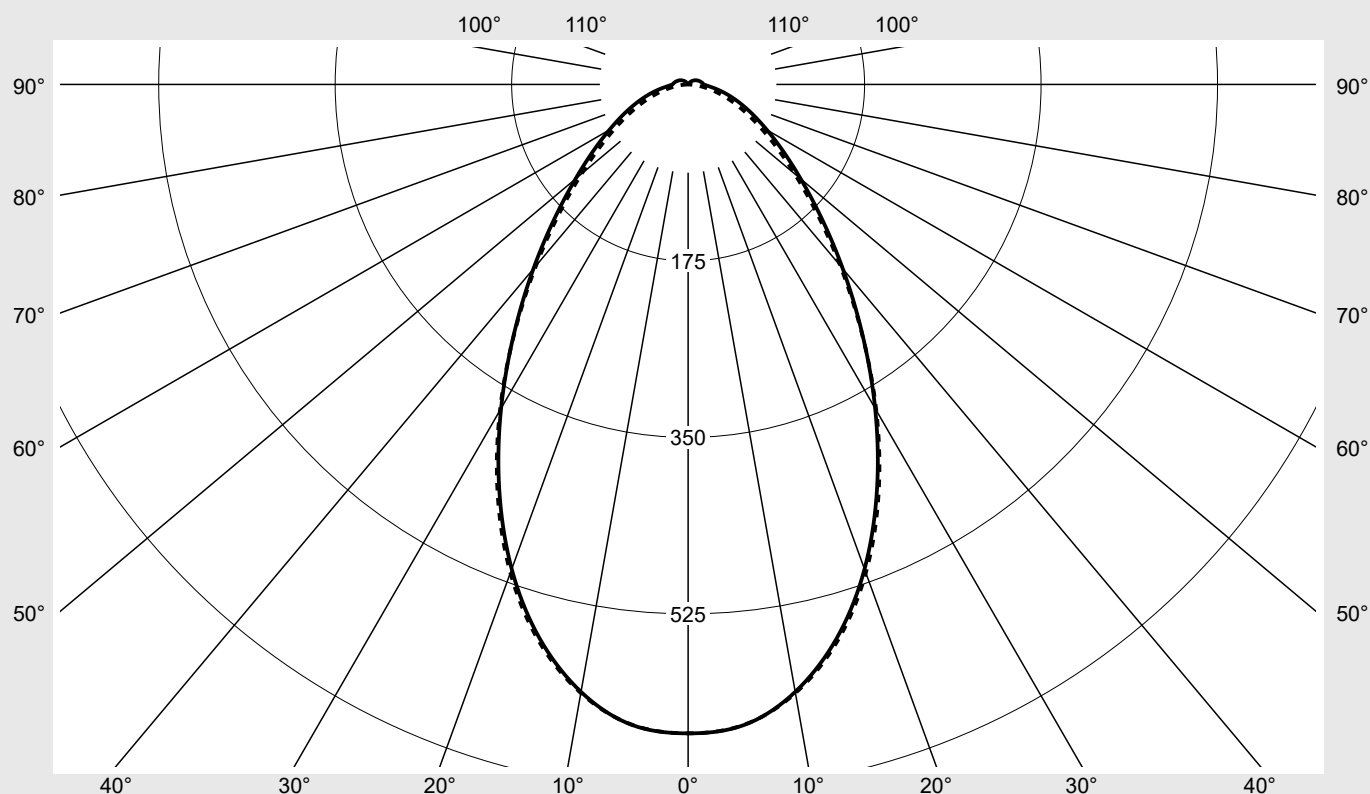
sITeco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 643 cd/klm



Klassifizierungen

DIN 5040 A 5 1
 CIE N1=65 N2=88 N3=97
 N4=97 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 97,2%
 ϕ_o 2,8%

Messbedingungen

DIN EN 13032 und DIN 5032

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| | | |
|--|---|------------------------------------|
| Familie Monsun® 21 | Bestell-Nr.: 51FB12MP480B EAN: 4058352520116 | LP-Nummer 59014_7 |
| 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° | 643.5 | 643.5 | 643.5 | 643.5 | 643.5 | 643.5 | 643.5 | 3.8 | 3.8 |
| 5° | 637.6 | 635.4 | 631.6 | 634.4 | 637.3 | 637.0 | 637.4 | 30.4 | 34.2 |
| 10° | 611.6 | 610.1 | 606.4 | 609.4 | 612.4 | 612.4 | 612.8 | 58.1 | 92.3 |
| 15° | 568.8 | 568.0 | 564.7 | 567.5 | 570.7 | 571.1 | 571.7 | 80.7 | 173.0 |
| 20° | 511.5 | 511.1 | 508.3 | 510.7 | 513.9 | 514.6 | 515.3 | 96.0 | 269.0 |
| 25° | 443.2 | 443.1 | 440.7 | 442.6 | 445.5 | 446.1 | 447.1 | 102.8 | 371.8 |
| 30° | 371.0 | 371.1 | 368.7 | 369.7 | 371.9 | 372.2 | 373.1 | 101.7 | 473.5 |
| 35° | 300.7 | 300.7 | 298.6 | 298.4 | 299.2 | 299.0 | 299.8 | 94.1 | 567.6 |
| 40° | 238.7 | 238.3 | 236.6 | 235.1 | 234.9 | 234.3 | 234.7 | 83.1 | 650.7 |
| 45° | 186.7 | 186.0 | 184.5 | 182.3 | 181.1 | 179.9 | 180.6 | 70.9 | 721.6 |
| 50° | 145.8 | 145.0 | 143.8 | 141.4 | 139.3 | 137.5 | 137.9 | 59.4 | 781.0 |
| 55° | 114.7 | 113.7 | 112.7 | 110.1 | 107.4 | 105.2 | 105.3 | 49.3 | 830.4 |
| 60° | 90.2 | 89.4 | 88.3 | 85.7 | 82.9 | 80.3 | 79.9 | 40.5 | 870.8 |
| 65° | 71.0 | 70.3 | 69.1 | 66.5 | 63.6 | 60.7 | 59.7 | 32.8 | 903.6 |
| 70° | 55.2 | 54.7 | 53.0 | 50.5 | 47.5 | 44.4 | 43.0 | 25.7 | 929.3 |
| 75° | 41.7 | 41.3 | 39.3 | 36.7 | 33.4 | 30.3 | 28.5 | 19.1 | 948.3 |
| 80° | 30.0 | 29.4 | 27.6 | 24.6 | 21.1 | 17.9 | 15.8 | 12.9 | 961.2 |
| 85° | 20.6 | 20.0 | 18.3 | 15.2 | 11.4 | 8.0 | 5.8 | 7.8 | 969.1 |
| 90° | 15.7 | 15.1 | 13.3 | 10.2 | 6.4 | 3.0 | 0.9 | 5.1 | 974.2 |
| 95° | 14.4 | 13.8 | 12.1 | 9.2 | 5.6 | 2.3 | 0.8 | 4.6 | 978.8 |
| 100° | 13.2 | 12.6 | 10.9 | 8.1 | 4.8 | 1.7 | 0.7 | 4.1 | 982.9 |
| 105° | 12.0 | 11.4 | 9.7 | 7.0 | 3.9 | 1.1 | 0.7 | 3.5 | 986.3 |
| 110° | 10.8 | 10.1 | 8.4 | 5.9 | 3.0 | 0.8 | 0.6 | 2.9 | 989.2 |
| 115° | 9.6 | 8.9 | 7.3 | 4.9 | 2.3 | 0.8 | 0.7 | 2.4 | 991.7 |
| 120° | 8.3 | 7.6 | 6.1 | 3.9 | 1.6 | 0.8 | 0.7 | 1.9 | 993.6 |
| 125° | 6.9 | 6.2 | 4.8 | 2.9 | 1.1 | 0.8 | 0.8 | 1.5 | 995.1 |
| 130° | 5.5 | 4.9 | 3.7 | 2.2 | 1.1 | 1.0 | 0.9 | 1.1 | 996.2 |
| 135° | 4.3 | 3.8 | 2.8 | 1.6 | 1.3 | 1.1 | 1.1 | 0.9 | 997.1 |
| 140° | 3.1 | 2.8 | 2.1 | 1.6 | 1.5 | 1.3 | 1.3 | 0.7 | 997.7 |
| 145° | 2.3 | 2.1 | 1.9 | 1.8 | 1.6 | 1.5 | 1.5 | 0.6 | 998.3 |
| 150° | 2.1 | 2.0 | 2.0 | 1.8 | 1.6 | 1.6 | 1.6 | 0.5 | 998.8 |
| 155° | 2.1 | 2.0 | 1.9 | 1.8 | 1.7 | 1.6 | 1.6 | 0.4 | 999.2 |
| 160° | 1.9 | 1.9 | 1.8 | 1.7 | 1.6 | 1.6 | 1.6 | 0.3 | 999.5 |
| 165° | 1.6 | 1.7 | 1.7 | 1.6 | 1.6 | 1.6 | 1.6 | 0.2 | 999.8 |
| 170° | 1.5 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.1 | 999.9 |
| 175° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.1 | 1000.0 |
| 180° | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 1.6 | 0.0 | 1000.0 |

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| UGR-Tabelle | | Standardraum | | | | | | | | | |
|-----------------|-----|-------------------------------------|------|------|------|------|---------------------------------------|------|------|------|------|
| | | Blickrichtung quer zur Leuchte (C0) | | | | | Blickrichtung längs zur Leuchte (C90) | | | | |
| Raumabmessungen | | | | | | | | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 19,1 | 20,7 | 19,5 | 21,0 | 21,3 | 19,3 | 20,8 | 19,6 | 21,1 | 21,4 |
| | 3H | 20,1 | 21,5 | 20,5 | 21,8 | 22,2 | 20,2 | 21,5 | 20,6 | 21,9 | 22,2 |
| | 4H | 20,6 | 21,8 | 21,0 | 22,2 | 22,6 | 20,5 | 21,8 | 20,9 | 22,2 | 22,5 |
| | 6H | 21,0 | 22,1 | 21,4 | 22,5 | 22,9 | 20,8 | 21,9 | 21,2 | 22,3 | 22,7 |
| | 8H | 21,2 | 22,2 | 21,6 | 22,6 | 23,0 | 20,9 | 22,0 | 21,3 | 22,3 | 22,7 |
| | 12H | 21,3 | 22,3 | 21,8 | 22,7 | 23,1 | 20,9 | 21,9 | 21,4 | 22,3 | 22,7 |
| 4H | 2H | 19,6 | 20,8 | 20,0 | 21,2 | 21,6 | 19,7 | 21,0 | 20,1 | 21,3 | 21,7 |
| | 3H | 20,8 | 21,8 | 21,2 | 22,2 | 22,6 | 20,8 | 21,8 | 21,2 | 22,2 | 22,6 |
| | 4H | 21,3 | 22,3 | 21,8 | 22,7 | 23,1 | 21,3 | 22,2 | 21,7 | 22,6 | 23,0 |
| | 6H | 21,9 | 22,7 | 22,3 | 23,1 | 23,6 | 21,6 | 22,4 | 22,0 | 22,8 | 23,3 |
| | 8H | 22,1 | 22,8 | 22,5 | 23,3 | 23,7 | 21,7 | 22,4 | 22,2 | 22,9 | 23,4 |
| | 12H | 22,3 | 22,9 | 22,8 | 23,4 | 23,9 | 21,8 | 22,4 | 22,2 | 22,9 | 23,4 |
| 8H | 4H | 21,6 | 22,3 | 22,0 | 22,7 | 23,2 | 21,5 | 22,2 | 21,9 | 22,7 | 23,1 |
| | 6H | 22,2 | 22,8 | 22,7 | 23,3 | 23,8 | 21,9 | 22,5 | 22,4 | 23,0 | 23,5 |
| | 8H | 22,5 | 23,0 | 23,0 | 23,5 | 24,0 | 22,0 | 22,6 | 22,5 | 23,1 | 23,6 |
| | 12H | 22,8 | 23,2 | 23,3 | 23,7 | 24,3 | 22,2 | 22,6 | 22,7 | 23,1 | 23,6 |
| 12H | 4H | 21,6 | 22,2 | 22,1 | 22,7 | 23,2 | 21,5 | 22,2 | 22,0 | 22,6 | 23,1 |
| | 6H | 22,2 | 22,8 | 22,7 | 23,3 | 23,8 | 22,0 | 22,5 | 22,5 | 23,0 | 23,5 |
| | 8H | 22,6 | 23,0 | 23,1 | 23,5 | 24,1 | 22,2 | 22,6 | 22,7 | 23,1 | 23,6 |

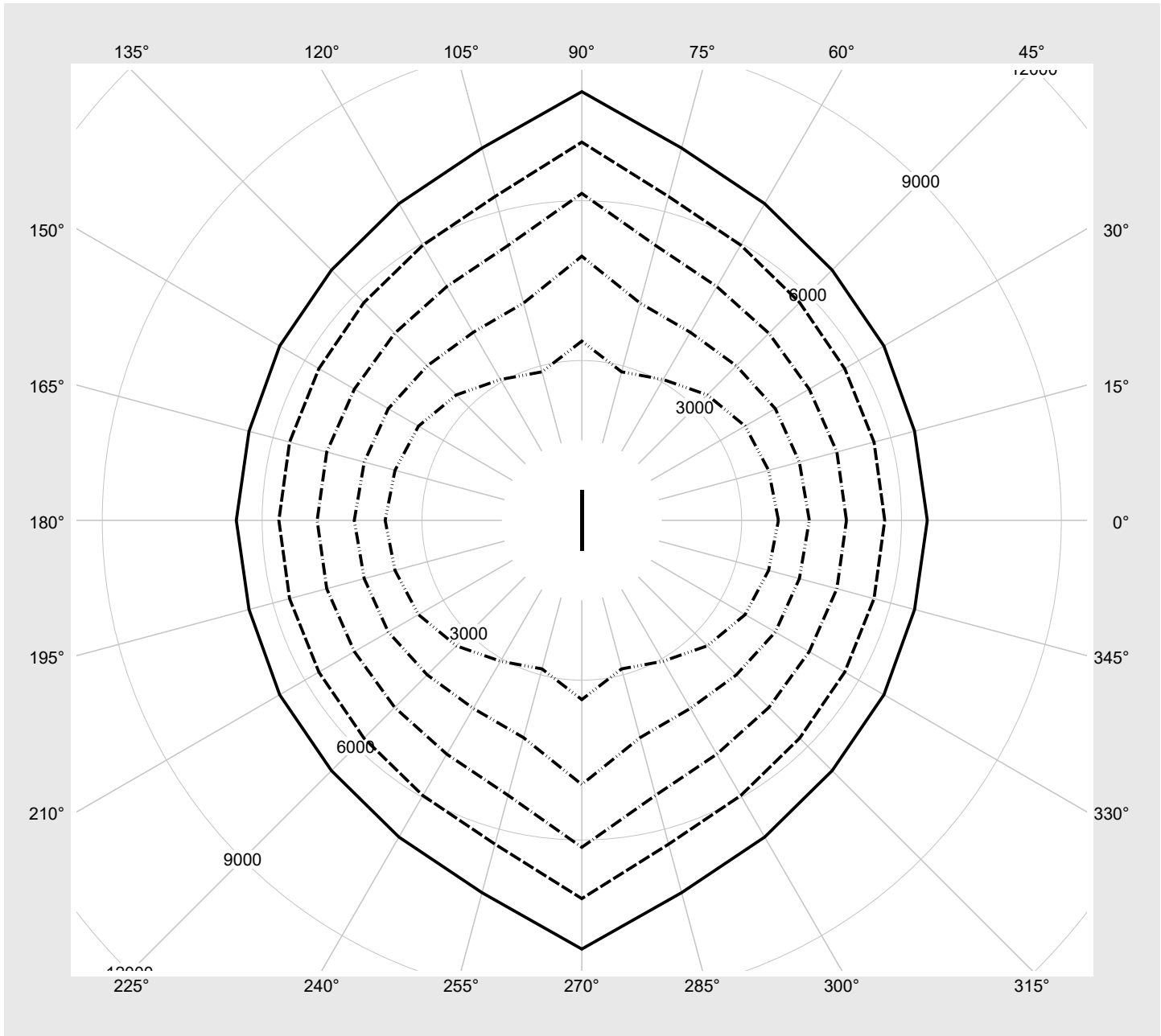
| | | | |
|--|--|-------------------------|----------------------------|
| Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ | Lichttechnische Abmessungen in mm: L = 1590, B = 87 | H(C0) = 21, H(C90) = 21 | H(C180) = 21, H(C270) = 21 |
|--|--|-------------------------|----------------------------|

| 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° | | 12454.8 | 12459.2 | 12568.5 | 12793.4 | 13248.9 | 13857.4 | 14759.5 | |
| 50° | | 10316.0 | 10303.2 | 10424.7 | 10606.9 | 10961.1 | 11495.1 | 12364.8 | |
| 55° | | 8704.3 | 8674.7 | 8792.6 | 8937.2 | 9227.9 | 9699.4 | 10554.2 | |
| 60° | | 7450.7 | 7425.6 | 7529.4 | 7650.2 | 7899.3 | 8315.3 | 9148.3 | |
| 65° | | 6484.6 | 6466.1 | 6547.8 | 6645.2 | 6864.9 | 7236.2 | 8047.8 | |
| 70° | | 5685.7 | 5678.1 | 5698.1 | 5782.7 | 5965.6 | 6293.5 | 7100.6 | |
| 75° | | 4967.1 | 4956.4 | 4928.6 | 4966.5 | 5068.0 | 5344.1 | 6137.7 | |
| 80° | | 4270.2 | 4227.6 | 4193.7 | 4102.3 | 4075.8 | 4223.1 | 4958.5 | |
| 85° | | 3690.6 | 3629.7 | 3539.4 | 3330.9 | 3053.3 | 2886.6 | 3364.6 | |

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



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Multilumen-Tabelle

Umgebungstemperatur: 25°C



| DIP-Stufe | Schalterstellung | | | Lichtstrom [lm] | Systemleistung [W] |
|-----------|------------------|---|---|--------------------|-----------------------|
| | 1 | 2 | 3 | | |
| 1 | A | C | E | 8100 | 53.6 |
| 2 | A | C | F | 7320 | 47.6 |
| 3 | A | D | E | 6760 | 43.5 |
| 4 | A | D | F | 6120 | 39.0 |
| 5 | B | C | E | 5550 | 35.0 |
| 6 | B | C | F | 4960 | 31.0 |
| 7 | B | D | E | 4360 | 27.1 |
| 8 | B | D | F | 3820 | 23.6 |