



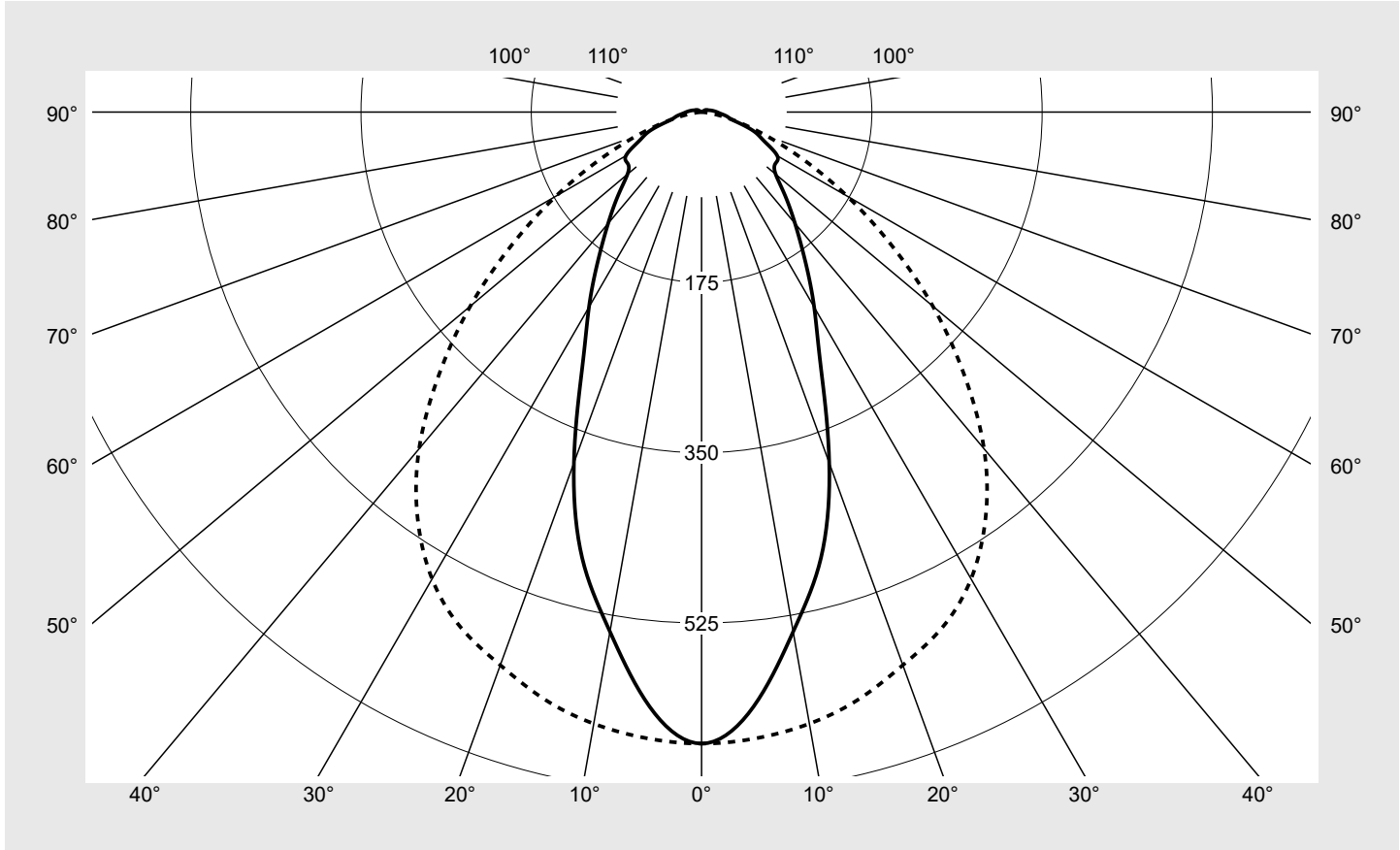
Photometric test report

| | | |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Family Monsun® Ex | Order number: 51FXB1DP4D0A EAN: 4058352933428 | LP number 59500_6 |
| | Version prismatic diffuser, opal, polycarbonate, elliptical medium distributon Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 17900 lm Power consumption = 116.3 W Luminous efficacy = 153.9 lm/W | serial documentation 06.11.2023 |





Luminous intensity in cd/klm C180-0 C270-90 **Imax: 649 cd/klm**



| Classifications | |
|-----------------|-----------------------------------|
| DIN 5040 | A 5 1 |
| CIE | N1=61 N2=86 N3=97 N4=98 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 98.3% |
| ϕ_o | 1.7% |

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

| | | |
|------------------------------------------|----------------------------------------------------------------|-----------------------------|
| Family Monsun® Ex | Order number: 51FXB1DP4D0A EAN: 4058352933428 | LP number 59500_6 |
| Table of values for luminous intensities | | Maximum luminous intensity |
| | | siteco |

| C-planes γ | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-zone | Total Phi-zone |
|------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|-------------------------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | |
| Luminous intensity in cd/klm | | | | | | | | Luminous flux in lm/klm | |
| 0° | 648.9 | 648.9 | 648.9 | 648.9 | 648.9 | 648.9 | 648.9 | 3.9 | 3.9 |
| 5° | 613.2 | 614.6 | 619.7 | 628.1 | 636.7 | 643.2 | 645.9 | 30.0 | 33.9 |
| 10° | 542.2 | 547.0 | 559.3 | 579.7 | 603.7 | 626.8 | 638.1 | 55.6 | 89.5 |
| 15° | 474.2 | 479.5 | 494.7 | 520.1 | 559.4 | 601.8 | 624.5 | 75.8 | 165.3 |
| 20° | 383.6 | 394.2 | 422.7 | 461.8 | 507.0 | 568.3 | 604.8 | 89.0 | 254.3 |
| 25° | 290.3 | 301.3 | 333.6 | 392.4 | 452.0 | 525.9 | 584.7 | 94.3 | 348.6 |
| 30° | 231.4 | 238.1 | 258.4 | 313.2 | 392.6 | 474.9 | 553.9 | 94.5 | 443.2 |
| 35° | 185.1 | 190.9 | 209.8 | 244.2 | 327.3 | 418.4 | 508.9 | 91.0 | 534.2 |
| 40° | 149.4 | 153.3 | 167.8 | 197.2 | 262.5 | 358.4 | 451.6 | 84.5 | 618.8 |
| 45° | 121.4 | 125.7 | 136.6 | 159.1 | 205.5 | 298.1 | 381.7 | 76.0 | 694.8 |
| 50° | 99.4 | 102.9 | 112.6 | 127.3 | 162.4 | 239.6 | 310.3 | 66.5 | 761.2 |
| 55° | 92.5 | 90.5 | 93.6 | 105.4 | 127.7 | 185.3 | 238.1 | 57.5 | 818.7 |
| 60° | 89.8 | 87.6 | 84.0 | 89.0 | 99.3 | 137.3 | 172.8 | 49.7 | 868.4 |
| 65° | 71.3 | 71.5 | 68.0 | 74.2 | 78.9 | 97.8 | 115.4 | 40.1 | 908.5 |
| 70° | 56.8 | 56.8 | 54.2 | 55.0 | 59.8 | 66.0 | 70.6 | 30.5 | 939.0 |
| 75° | 35.1 | 36.1 | 37.2 | 40.2 | 39.9 | 39.4 | 37.9 | 20.2 | 959.2 |
| 80° | 26.8 | 27.5 | 28.0 | 26.5 | 24.0 | 19.4 | 15.9 | 13.2 | 972.4 |
| 85° | 20.0 | 20.2 | 19.4 | 18.1 | 12.9 | 7.0 | 3.5 | 8.1 | 980.6 |
| 90° | 15.8 | 15.3 | 14.4 | 12.2 | 6.5 | 2.4 | 1.0 | 5.4 | 986.0 |
| 95° | 12.6 | 12.1 | 10.4 | 8.1 | 3.9 | 1.7 | 1.1 | 3.9 | 989.9 |
| 100° | 9.8 | 9.4 | 7.3 | 5.6 | 3.5 | 1.7 | 0.9 | 2.9 | 992.8 |
| 105° | 7.5 | 6.9 | 6.5 | 4.6 | 3.2 | 1.2 | 0.9 | 2.3 | 995.2 |
| 110° | 6.4 | 6.2 | 5.5 | 4.0 | 2.8 | 1.0 | 0.8 | 2.0 | 997.2 |
| 115° | 5.3 | 5.1 | 4.3 | 3.3 | 1.8 | 0.6 | 0.6 | 1.5 | 998.6 |
| 120° | 3.9 | 3.7 | 2.2 | 1.6 | 1.0 | 0.4 | 0.5 | 0.9 | 999.5 |
| 125° | 0.4 | 0.7 | 0.9 | 0.8 | 0.5 | 0.3 | 0.4 | 0.3 | 999.8 |
| 130° | 0.0 | 0.1 | 0.3 | 0.4 | 0.2 | 0.2 | 0.3 | 0.1 | 999.9 |
| 135° | 0.0 | 0.0 | 0.1 | 0.2 | 0.1 | 0.2 | 0.2 | 0.0 | 999.9 |
| 140° | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 1000.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.0 | 1000.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 1000.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 175° | 0.0 | 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 | 0.0 | 1000.0 |

Photometric test report

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| Family Monsun® Ex | Order number: 51FXB1DP4D0A EAN: 4058352933428 | LP number 59500_6 |
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| UGR-Table | Standard room | siteco |
|------------------|----------------------|---------------|

| | | | | | | | | | | | |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| Reflection factor of ceiling | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | 0.7 | 0.7 | 0.5 | 0.5 | 0.3 | |
| Reflection factor of walls | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | 0.5 | 0.3 | 0.5 | 0.3 | 0.3 | |
| Reflection factor of floor | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | |
| Room dimensions | View crosswise (C0) | | | | | View endwise (C90) | | | | | |
| x | y | | | | | | | | | | |
| 2H | 2H | 18.3 | 19.8 | 18.6 | 20.1 | 20.4 | 23.1 | 24.6 | 23.4 | 24.9 | 25.2 |
| | 3H | 19.7 | 21.1 | 20.0 | 21.4 | 21.7 | 24.0 | 25.4 | 24.4 | 25.7 | 26.1 |
| | 4H | 20.1 | 21.4 | 20.5 | 21.7 | 22.1 | 24.3 | 25.5 | 24.7 | 25.9 | 26.3 |
| | 6H | 20.4 | 21.6 | 20.8 | 22.0 | 22.4 | 24.4 | 25.5 | 24.8 | 25.9 | 26.3 |
| | 8H | 20.6 | 21.7 | 21.0 | 22.1 | 22.5 | 24.5 | 25.5 | 24.9 | 25.9 | 26.3 |
| | 12H | 20.7 | 21.8 | 21.2 | 22.2 | 22.6 | 24.4 | 25.4 | 24.9 | 25.8 | 26.2 |
| 4H | 2H | 19.1 | 20.4 | 19.5 | 20.7 | 21.1 | 23.1 | 24.4 | 23.5 | 24.8 | 25.2 |
| | 3H | 20.6 | 21.7 | 21.0 | 22.1 | 22.5 | 24.2 | 25.3 | 24.6 | 25.7 | 26.1 |
| | 4H | 21.1 | 22.1 | 21.5 | 22.5 | 22.9 | 24.5 | 25.5 | 25.0 | 25.9 | 26.4 |
| | 6H | 21.5 | 22.4 | 22.0 | 22.8 | 23.3 | 24.7 | 25.6 | 25.2 | 26.0 | 26.4 |
| | 8H | 21.7 | 22.5 | 22.2 | 23.0 | 23.5 | 24.8 | 25.5 | 25.2 | 26.0 | 26.4 |
| | 12H | 22.0 | 22.7 | 22.4 | 23.1 | 23.6 | 24.8 | 25.4 | 25.3 | 25.9 | 26.4 |
| 8H | 4H | 21.5 | 22.2 | 21.9 | 22.6 | 23.1 | 24.6 | 25.4 | 25.1 | 25.8 | 26.3 |
| | 6H | 22.0 | 22.6 | 22.5 | 23.1 | 23.6 | 24.8 | 25.5 | 25.3 | 25.9 | 26.4 |
| | 8H | 22.3 | 22.9 | 22.8 | 23.3 | 23.9 | 24.9 | 25.4 | 25.4 | 25.9 | 26.4 |
| | 12H | 22.6 | 23.1 | 23.1 | 23.6 | 24.1 | 24.9 | 25.4 | 25.4 | 25.9 | 26.4 |
| 12H | 4H | 21.5 | 22.1 | 22.0 | 22.6 | 23.1 | 24.6 | 25.3 | 25.1 | 25.7 | 26.2 |
| | 6H | 22.1 | 22.6 | 22.6 | 23.1 | 23.6 | 24.8 | 25.4 | 25.3 | 25.9 | 26.4 |
| | 8H | 22.4 | 22.9 | 22.9 | 23.4 | 23.9 | 24.9 | 25.4 | 25.4 | 25.9 | 26.4 |

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|------------------------|---------------------------------------------------|--------------------------------------|-----------------|--------------------|---------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1580 | H(C0) = 50 | H(C180) = 50 |
| | | | B = 155 | H(C90) = 50 | H(C270) = 50 |

| C-planes | γ | Luminance 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° | | 9491.5 | 9848.8 | 10897.8 | 13150.6 | 17871.0 | 27661.6 | 38241.7 | |
| 50° | | 8166.0 | 8470.5 | 9473.0 | 11148.7 | 15073.1 | 23980.6 | 33998.1 | |
| 55° | | 8070.4 | 7917.3 | 8386.2 | 9889.8 | 12816.7 | 20310.2 | 29027.5 | |
| 60° | | 8424.3 | 8241.6 | 8123.1 | 9071.8 | 10942.9 | 16757.0 | 23943.5 | |
| 65° | | 7285.2 | 7334.7 | 7206.5 | 8351.1 | 9711.7 | 13592.9 | 18694.1 | |
| 70° | | 6438.0 | 6458.7 | 6399.9 | 6961.5 | 8415.5 | 10742.9 | 13872.2 | |
| 75° | | 4499.4 | 4650.4 | 5002.1 | 5869.9 | 6612.9 | 7810.3 | 9578.6 | |
| 80° | | 3987.4 | 4109.7 | 4404.2 | 4616.0 | 4874.5 | 4958.4 | 5682.4 | |
| 85° | | 3581.7 | 3633.3 | 3725.3 | 3928.3 | 3436.0 | 2535.5 | 2129.7 | |

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°

