

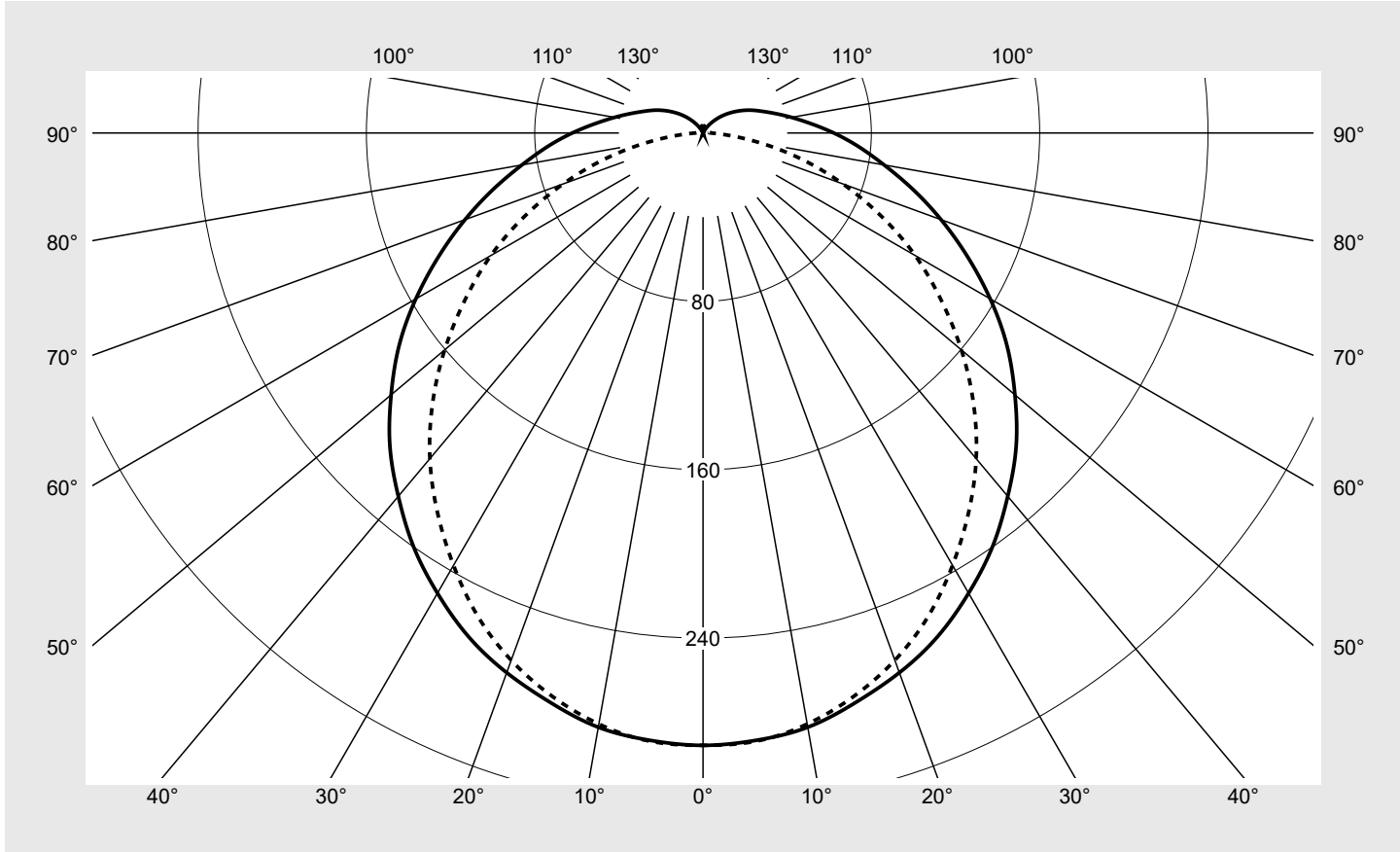


Photometric test report

| | | |
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| Family Monsun® Ex | Order number: 51FXB27P6A0A3G EAN: 4058352933695 | LP number 59499_22 |
|  | Version prismatic diffuser, opal, polycarbonate, diffuse beam, emergence lighting 3h Lamps LED 6500 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 11170 lm Power consumption = 73.4 W Luminous efficacy = 152.2 lm/W | serial documentation 14.11.2023 |
| |  | |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 291 cd/klm**



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

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 91.7% |
| ϕ_o | 8.3% |

| Measurement conditions |
|---------------------------|
| DIN EN 13032 and DIN 5032 |

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| 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° | 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-Table | | Standard room | | | | | | | | | |
|------------------------------|-----|---------------------|------|------|------|------|--------------------|------|------|------|------|
| 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 | 20.3 | 22.0 | 20.6 | 22.3 | 22.7 | 19.7 | 21.5 | 20.1 | 21.8 | 22.1 |
| | 3H | 22.2 | 23.8 | 22.6 | 24.1 | 24.5 | 21.2 | 22.8 | 21.6 | 23.2 | 23.5 |
| | 4H | 23.1 | 24.6 | 23.5 | 25.0 | 25.3 | 21.8 | 23.3 | 22.2 | 23.7 | 24.0 |
| | 6H | 24.0 | 25.4 | 24.4 | 25.8 | 26.2 | 22.2 | 23.6 | 22.6 | 24.0 | 24.4 |
| | 8H | 24.5 | 25.8 | 24.9 | 26.2 | 26.6 | 22.4 | 23.7 | 22.8 | 24.1 | 24.5 |
| | 12H | 24.9 | 26.1 | 25.3 | 26.5 | 27.0 | 22.4 | 23.7 | 22.8 | 24.1 | 24.5 |
| 4H | 2H | 21.0 | 22.5 | 21.4 | 22.8 | 23.2 | 20.6 | 22.1 | 20.9 | 22.4 | 22.8 |
| | 3H | 23.1 | 24.4 | 23.5 | 24.8 | 25.2 | 22.3 | 23.6 | 22.7 | 24.0 | 24.4 |
| | 4H | 24.2 | 25.4 | 24.6 | 25.8 | 26.2 | 23.0 | 24.2 | 23.4 | 24.6 | 25.0 |
| | 6H | 25.3 | 26.3 | 25.7 | 26.7 | 27.2 | 23.5 | 24.6 | 24.0 | 25.0 | 25.5 |
| | 8H | 25.8 | 26.8 | 26.3 | 27.2 | 27.7 | 23.7 | 24.7 | 24.2 | 25.1 | 25.6 |
| | 12H | 26.3 | 27.2 | 26.8 | 27.7 | 28.1 | 23.8 | 24.7 | 24.3 | 25.2 | 25.7 |
| 8H | 4H | 24.5 | 25.5 | 25.0 | 26.0 | 26.4 | 23.5 | 24.5 | 24.0 | 24.9 | 25.4 |
| | 6H | 25.8 | 26.7 | 26.3 | 27.1 | 27.6 | 24.3 | 25.1 | 24.7 | 25.5 | 26.0 |
| | 8H | 26.5 | 27.2 | 27.0 | 27.7 | 28.2 | 24.5 | 25.3 | 25.0 | 25.8 | 26.3 |
| | 12H | 27.2 | 27.8 | 27.7 | 28.3 | 28.9 | 24.7 | 25.4 | 25.2 | 25.9 | 26.4 |
| 12H | 4H | 24.6 | 25.5 | 25.1 | 25.9 | 26.4 | 23.7 | 24.5 | 24.1 | 25.0 | 25.5 |
| | 6H | 25.9 | 26.7 | 26.4 | 27.1 | 27.7 | 24.5 | 25.2 | 25.0 | 25.7 | 26.2 |
| | 8H | 26.7 | 27.3 | 27.2 | 27.8 | 28.3 | 24.8 | 25.5 | 25.3 | 26.0 | 26.5 |

| 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 | 0° | 15° | 30° | 45° | 60° | 75° | 90° |
| | | 180° | 165° | 150° | 135° | 120° | 105° | 270° |
| | | 195° | 210° | 225° | 240° | 255° | 285° | |
| | | 345° | 330° | 315° | 300° | | | |
| Luminance in cd/m ² | | | | | | | | |
| 45° | | 10265.1 | 10195.0 | 10158.0 | 10169.4 | 10268.1 | 10666.0 | 11368.6 |
| 50° | | 9918.4 | 9865.9 | 9780.0 | 9779.2 | 9848.5 | 10178.7 | 10960.2 |
| 55° | | 9603.5 | 9494.0 | 9382.8 | 9329.8 | 9398.9 | 9690.1 | 10503.6 |
| 60° | | 9224.2 | 9090.4 | 8997.8 | 8881.9 | 8916.9 | 9209.9 | 10069.6 |
| 65° | | 8840.3 | 8702.2 | 8541.1 | 8417.4 | 8394.6 | 8562.8 | 9448.5 |
| 70° | | 8511.9 | 8350.8 | 8116.0 | 7907.2 | 7776.8 | 7850.8 | 8677.7 |
| 75° | | 8250.2 | 8089.5 | 7798.9 | 7451.4 | 7120.4 | 6996.1 | 7725.9 |
| 80° | | 8112.4 | 7924.8 | 7593.6 | 7127.1 | 6548.1 | 5976.0 | 6315.6 |
| 85° | | 8283.3 | 8034.5 | 7605.6 | 7064.7 | 6234.7 | 5000.0 | 4523.3 |

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Luminance values in cd/m²

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

