

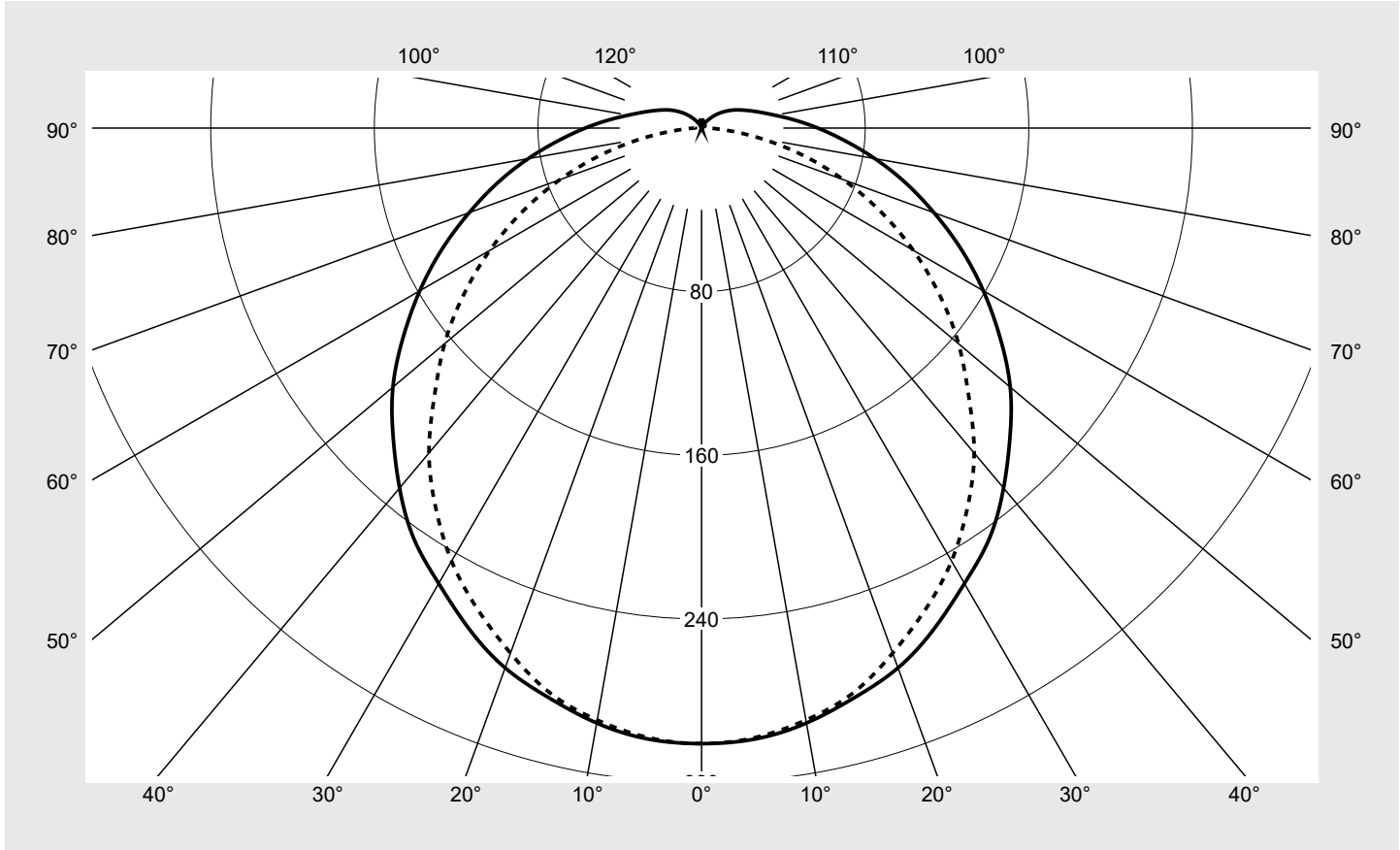


Photometric test report

| | | |
|--|--|---|
| Family Monsun® Ex | Order number: 51FXB2DD420A EAN: 4058352933725 | LP number 59498_4 |
|  | Version prismatic diffuser, opal, polycarbonate, diffuse beam | serial documentation 06.11.2023 |
| | Lamps LED 4000 K CRI ≥ 80 Controlgear ECG-DALI Rated values Net luminous flux = 2250 lm Power consumption = 14.6 W Luminous efficacy = 154.1 lm/W | |
| | |  |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 301 cd/klm**



| Classifications | |
|-----------------|-----------------------------------|
| DIN 5040 | A 3 1 |
| CIE | N1=43 N2=73 N3=91 N4=93 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 93.0% |
| ϕ_o | 7.0% |

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

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|---|--|-----------------------------------|
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| Table of values for luminous intensities | | Maximum luminous intensity |
| | | |



| 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° | 300.9 | 300.9 | 300.9 | 300.9 | 300.9 | 300.9 | 300.9 | 1.8 | 1.8 |
| 5° | 299.8 | 298.9 | 299.8 | 299.4 | 299.3 | 299.3 | 299.1 | 14.3 | 16.1 |
| 10° | 295.4 | 295.5 | 295.7 | 294.7 | 294.9 | 294.7 | 293.9 | 28.1 | 44.2 |
| 15° | 288.4 | 288.5 | 288.4 | 287.2 | 286.8 | 286.6 | 286.0 | 40.8 | 85.0 |
| 20° | 280.8 | 279.8 | 278.9 | 277.6 | 275.9 | 275.3 | 273.2 | 52.0 | 137.0 |
| 25° | 269.7 | 268.9 | 267.9 | 266.0 | 263.0 | 261.1 | 259.4 | 61.4 | 198.4 |
| 30° | 257.1 | 257.4 | 254.0 | 251.9 | 248.4 | 245.2 | 244.4 | 68.9 | 267.3 |
| 35° | 245.2 | 243.2 | 240.2 | 235.1 | 230.9 | 227.9 | 226.6 | 74.1 | 341.3 |
| 40° | 229.7 | 228.0 | 223.6 | 219.0 | 212.7 | 208.6 | 207.4 | 77.0 | 418.3 |
| 45° | 213.3 | 211.0 | 207.0 | 200.7 | 193.6 | 188.6 | 184.6 | 77.5 | 495.8 |
| 50° | 197.0 | 194.3 | 189.0 | 181.2 | 173.5 | 167.2 | 164.0 | 76.0 | 571.8 |
| 55° | 178.1 | 175.9 | 170.2 | 161.5 | 152.6 | 145.9 | 142.0 | 72.3 | 644.1 |
| 60° | 159.1 | 156.9 | 150.3 | 141.6 | 131.4 | 123.3 | 119.5 | 66.7 | 710.8 |
| 65° | 140.0 | 137.3 | 130.4 | 120.8 | 110.2 | 101.5 | 96.6 | 59.5 | 770.3 |
| 70° | 120.9 | 118.1 | 110.8 | 100.1 | 89.0 | 78.7 | 73.7 | 51.0 | 821.2 |
| 75° | 103.2 | 100.1 | 92.1 | 80.5 | 67.9 | 57.2 | 51.1 | 41.9 | 863.2 |
| 80° | 86.1 | 82.8 | 74.6 | 62.5 | 49.3 | 37.0 | 29.7 | 32.8 | 895.9 |
| 85° | 70.2 | 67.5 | 59.4 | 47.5 | 33.8 | 20.5 | 12.2 | 24.6 | 920.5 |
| 90° | 56.9 | 54.1 | 46.6 | 35.5 | 23.0 | 10.9 | 3.7 | 18.3 | 938.8 |
| 95° | 45.5 | 43.2 | 36.5 | 26.9 | 16.3 | 7.1 | 3.3 | 14.1 | 952.9 |
| 100° | 36.3 | 34.5 | 29.0 | 21.0 | 12.7 | 5.4 | 2.9 | 11.0 | 963.9 |
| 105° | 29.8 | 28.1 | 23.6 | 17.3 | 10.4 | 4.1 | 2.6 | 8.8 | 972.7 |
| 110° | 24.9 | 23.5 | 19.8 | 14.5 | 8.3 | 3.0 | 2.3 | 7.1 | 979.8 |
| 115° | 21.0 | 19.9 | 16.7 | 11.9 | 6.5 | 2.1 | 2.0 | 5.7 | 985.4 |
| 120° | 17.6 | 16.5 | 13.7 | 9.5 | 4.8 | 1.7 | 1.8 | 4.4 | 989.9 |
| 125° | 14.3 | 13.3 | 10.8 | 7.2 | 3.2 | 1.5 | 1.6 | 3.3 | 993.2 |
| 130° | 11.2 | 10.4 | 8.2 | 5.1 | 1.9 | 1.3 | 1.3 | 2.3 | 995.5 |
| 135° | 8.3 | 7.6 | 5.7 | 3.1 | 1.0 | 1.1 | 1.2 | 1.5 | 997.0 |
| 140° | 5.6 | 5.1 | 3.6 | 1.6 | 0.9 | 1.1 | 1.1 | 0.9 | 997.9 |
| 145° | 3.5 | 3.0 | 1.9 | 0.9 | 1.0 | 1.2 | 1.2 | 0.5 | 998.4 |
| 150° | 1.6 | 1.3 | 0.8 | 0.8 | 1.0 | 1.1 | 1.1 | 0.3 | 998.7 |
| 155° | 1.0 | 1.0 | 0.9 | 1.0 | 1.0 | 1.1 | 1.1 | 0.2 | 999.0 |
| 160° | 1.3 | 1.3 | 1.4 | 1.4 | 1.3 | 1.2 | 1.2 | 0.2 | 999.2 |
| 165° | 2.6 | 2.6 | 2.5 | 2.4 | 2.1 | 1.9 | 1.8 | 0.3 | 999.5 |
| 170° | 4.0 | 3.9 | 3.7 | 3.4 | 3.1 | 2.8 | 2.7 | 0.3 | 999.8 |
| 175° | 3.2 | 3.1 | 3.0 | 2.9 | 2.8 | 2.7 | 2.6 | 0.1 | 1000.0 |
| 180° | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 | 0.0 | 1000.0 |

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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 | 17.7 | 19.4 | 18.0 | 19.7 | 20.1 | 17.1 | 18.8 | 17.4 | 19.1 | 19.4 |
| | 3H | 19.6 | 21.2 | 20.0 | 21.5 | 21.9 | 18.5 | 20.1 | 18.9 | 20.5 | 20.8 |
| | 4H | 20.5 | 22.0 | 20.9 | 22.3 | 22.7 | 19.1 | 20.6 | 19.5 | 21.0 | 21.3 |
| | 6H | 21.4 | 22.8 | 21.8 | 23.1 | 23.5 | 19.5 | 20.9 | 19.9 | 21.3 | 21.7 |
| | 8H | 21.8 | 23.1 | 22.2 | 23.5 | 23.9 | 19.6 | 21.0 | 20.0 | 21.3 | 21.7 |
| | 12H | 22.2 | 23.4 | 22.6 | 23.8 | 24.2 | 19.7 | 21.0 | 20.1 | 21.3 | 21.8 |
| 4H | 2H | 18.4 | 19.9 | 18.8 | 20.2 | 20.6 | 17.9 | 19.4 | 18.3 | 19.7 | 20.1 |
| | 3H | 20.5 | 21.8 | 20.9 | 22.2 | 22.6 | 19.6 | 20.9 | 20.0 | 21.2 | 21.7 |
| | 4H | 21.5 | 22.7 | 22.0 | 23.1 | 23.5 | 20.3 | 21.4 | 20.7 | 21.8 | 22.3 |
| | 6H | 22.6 | 23.6 | 23.0 | 24.0 | 24.5 | 20.7 | 21.8 | 21.2 | 22.2 | 22.7 |
| | 8H | 23.1 | 24.0 | 23.5 | 24.5 | 24.9 | 20.9 | 21.9 | 21.4 | 22.3 | 22.8 |
| | 12H | 23.6 | 24.4 | 24.1 | 24.9 | 25.4 | 21.0 | 21.9 | 21.5 | 22.3 | 22.8 |
| 8H | 4H | 21.9 | 22.8 | 22.3 | 23.3 | 23.7 | 20.8 | 21.7 | 21.2 | 22.2 | 22.6 |
| | 6H | 23.1 | 23.9 | 23.6 | 24.4 | 24.9 | 21.4 | 22.2 | 21.9 | 22.7 | 23.2 |
| | 8H | 23.7 | 24.5 | 24.2 | 24.9 | 25.4 | 21.7 | 22.4 | 22.1 | 22.9 | 23.4 |
| | 12H | 24.4 | 25.0 | 24.9 | 25.5 | 26.0 | 21.8 | 22.5 | 22.3 | 23.0 | 23.5 |
| 12H | 4H | 21.9 | 22.8 | 22.4 | 23.2 | 23.7 | 20.9 | 21.7 | 21.4 | 22.2 | 22.7 |
| | 6H | 23.2 | 23.9 | 23.7 | 24.4 | 24.9 | 21.6 | 22.3 | 22.1 | 22.8 | 23.3 |
| | 8H | 23.9 | 24.5 | 24.4 | 25.0 | 25.5 | 21.9 | 22.6 | 22.4 | 23.0 | 23.6 |

| | | | | | |
|------------------------|---|--------------------------------------|----------------|--------------------|---------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 670 | 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° | | 4941.2 | 4858.1 | 4816.3 | 4801.5 | 4837.5 | 5001.3 | 5264.3 | |
| 50° | | 4796.8 | 4696.9 | 4625.0 | 4574.7 | 4608.4 | 4755.2 | 5076.8 | |
| 55° | | 4605.2 | 4511.9 | 4426.2 | 4354.1 | 4358.0 | 4509.5 | 4847.5 | |
| 60° | | 4422.2 | 4322.5 | 4205.0 | 4126.8 | 4092.4 | 4210.1 | 4586.7 | |
| 65° | | 4243.0 | 4117.5 | 3979.8 | 3866.0 | 3806.5 | 3900.8 | 4269.8 | |
| 70° | | 4061.2 | 3917.1 | 3753.1 | 3577.5 | 3479.7 | 3494.2 | 3876.9 | |
| 75° | | 3920.0 | 3750.2 | 3532.3 | 3291.2 | 3084.7 | 3030.0 | 3348.5 | |
| 80° | | 3794.8 | 3591.6 | 3331.2 | 3009.5 | 2694.3 | 2451.6 | 2607.7 | |
| 85° | | 3724.8 | 3506.7 | 3198.6 | 2806.5 | 2347.9 | 1836.7 | 1636.4 | |

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

