

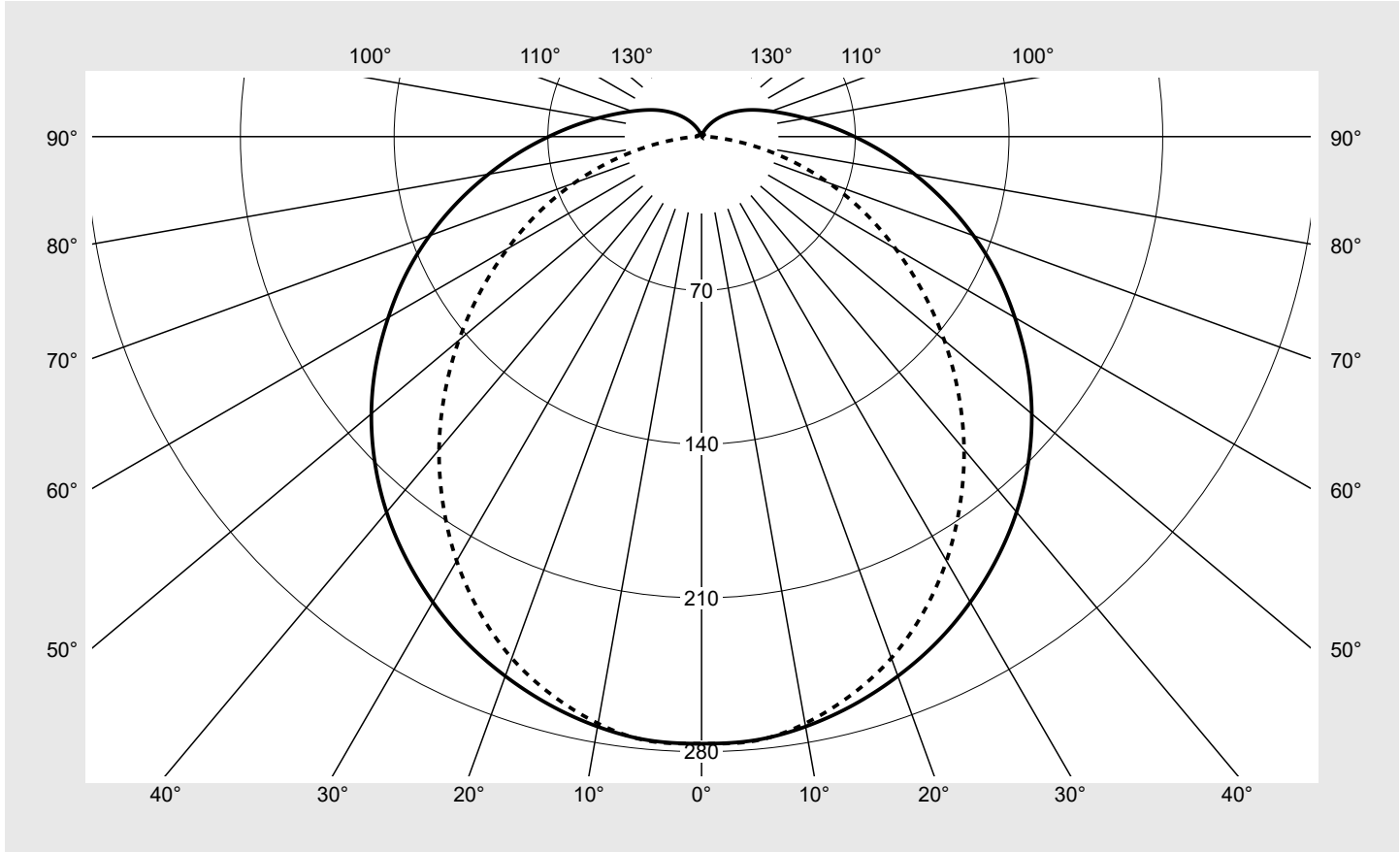


Photometric test report

| | | |
|--|---|---|
| Family Monsun® 21 Eco | Order number: 51FJ10DP47A EAN: 4058352749081 | LP number 59395_6 |
|  | Version cover, frosted, PMMA, diffuse beam | serial documentation 10.02.2023 |
| | Lamps LED 4000 K CRI ≥ 80 | |
| | Controlgear ECG-DALI | |
| | Rated values Net luminous flux = 7000 lm Power consumption = 50.0 W Luminous efficacy = 140 lm/W | |
| | |  |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 276 cd/klm**



| Classifications | |
|-----------------|-----------------------------------|
| DIN 5040 | A 3 1 |
| CIE | N1=41 N2=70 N3=89 N4=90 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 90.2% |
| ϕ_o | 9.8% |

| 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° | 276.4 | 276.4 | 276.4 | 276.4 | 276.4 | 276.4 | 276.4 | 1.7 | 1.7 |
| 5° | 275.9 | 276.0 | 274.4 | 274.3 | 274.7 | 275.3 | 276.2 | 13.1 | 14.8 |
| 10° | 272.7 | 273.0 | 271.1 | 270.4 | 270.4 | 270.7 | 271.3 | 25.8 | 40.6 |
| 15° | 267.8 | 268.1 | 265.7 | 263.9 | 263.0 | 262.7 | 263.2 | 37.6 | 78.2 |
| 20° | 261.4 | 261.5 | 258.5 | 255.3 | 253.5 | 252.0 | 252.7 | 48.0 | 126.2 |
| 25° | 253.8 | 253.4 | 249.5 | 244.5 | 241.2 | 238.5 | 239.0 | 56.9 | 183.1 |
| 30° | 244.7 | 244.3 | 239.3 | 232.7 | 227.1 | 223.2 | 223.0 | 64.0 | 247.1 |
| 35° | 234.5 | 233.6 | 227.5 | 219.3 | 211.2 | 205.7 | 205.1 | 69.0 | 316.1 |
| 40° | 223.1 | 221.7 | 214.8 | 204.7 | 194.5 | 187.0 | 186.0 | 72.1 | 388.2 |
| 45° | 210.3 | 208.7 | 200.8 | 189.4 | 177.0 | 167.4 | 165.4 | 73.1 | 461.2 |
| 50° | 196.3 | 194.3 | 186.0 | 173.2 | 159.0 | 147.2 | 144.3 | 72.1 | 533.3 |
| 55° | 181.0 | 178.9 | 170.2 | 156.5 | 140.8 | 127.2 | 122.9 | 69.3 | 602.6 |
| 60° | 164.8 | 162.6 | 153.6 | 138.9 | 123.1 | 107.7 | 102.0 | 64.8 | 667.4 |
| 65° | 148.6 | 145.9 | 137.1 | 122.1 | 105.8 | 89.1 | 82.0 | 59.2 | 726.6 |
| 70° | 131.8 | 128.9 | 120.2 | 105.1 | 88.4 | 70.5 | 61.6 | 52.3 | 779.0 |
| 75° | 114.9 | 112.2 | 103.6 | 88.9 | 71.3 | 52.7 | 42.0 | 44.8 | 823.7 |
| 80° | 98.5 | 95.8 | 87.8 | 73.5 | 55.7 | 36.1 | 23.8 | 36.9 | 860.6 |
| 85° | 83.4 | 80.6 | 73.3 | 59.8 | 42.4 | 22.6 | 9.2 | 29.6 | 890.2 |
| 90° | 69.6 | 67.2 | 60.4 | 48.1 | 32.1 | 14.0 | 2.5 | 23.6 | 913.8 |
| 95° | 58.0 | 55.8 | 49.9 | 38.8 | 24.6 | 9.6 | 2.3 | 19.0 | 932.8 |
| 100° | 48.1 | 46.3 | 40.9 | 31.2 | 19.3 | 7.1 | 2.1 | 15.3 | 948.1 |
| 105° | 40.1 | 38.4 | 33.5 | 25.6 | 15.5 | 5.2 | 1.8 | 12.3 | 960.4 |
| 110° | 33.7 | 31.9 | 28.0 | 21.1 | 12.4 | 3.8 | 1.7 | 9.9 | 970.2 |
| 115° | 28.6 | 26.8 | 23.5 | 17.3 | 9.7 | 2.8 | 1.6 | 7.9 | 978.1 |
| 120° | 24.2 | 22.6 | 19.5 | 14.1 | 7.5 | 2.1 | 1.5 | 6.2 | 984.3 |
| 125° | 20.2 | 18.7 | 15.9 | 11.2 | 5.6 | 1.6 | 1.4 | 4.8 | 989.1 |
| 130° | 16.6 | 15.3 | 12.7 | 8.6 | 4.1 | 1.5 | 1.3 | 3.6 | 992.7 |
| 135° | 13.3 | 12.1 | 9.9 | 6.5 | 2.9 | 1.4 | 0.9 | 2.6 | 995.3 |
| 140° | 10.2 | 9.2 | 7.3 | 4.6 | 1.9 | 1.2 | 1.0 | 1.8 | 997.0 |
| 145° | 7.4 | 6.6 | 5.2 | 3.1 | 1.5 | 1.2 | 1.1 | 1.1 | 998.2 |
| 150° | 5.0 | 4.4 | 3.4 | 2.0 | 1.4 | 1.3 | 1.2 | 0.7 | 998.9 |
| 155° | 3.0 | 2.7 | 2.1 | 1.5 | 1.4 | 1.3 | 1.3 | 0.4 | 999.3 |
| 160° | 1.7 | 1.6 | 1.6 | 1.5 | 1.4 | 1.3 | 1.3 | 0.3 | 999.6 |
| 165° | 1.5 | 1.5 | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 | 0.2 | 999.8 |
| 170° | 1.4 | 1.4 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 0.1 | 999.9 |
| 175° | 1.4 | 1.3 | 1.3 | 1.4 | 1.4 | 1.4 | 1.4 | 0.1 | 1000.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 20.4 | 22.2 | 20.8 | 22.5 | 22.9 | 19.3 | 21.1 | 19.7 | 21.4 | 21.7 |
| | 3H | 22.5 | 24.1 | 22.9 | 24.4 | 24.8 | 20.8 | 22.4 | 21.1 | 22.7 | 23.1 |
| | 4H | 23.5 | 25.0 | 23.9 | 25.3 | 25.7 | 21.3 | 22.9 | 21.7 | 23.2 | 23.6 |
| | 6H | 24.4 | 25.8 | 24.8 | 26.2 | 26.6 | 21.7 | 23.2 | 22.1 | 23.5 | 23.9 |
| | 8H | 24.9 | 26.2 | 25.3 | 26.6 | 27.0 | 21.8 | 23.2 | 22.3 | 23.6 | 24.0 |
| | 12H | 25.3 | 26.6 | 25.8 | 27.0 | 27.4 | 21.9 | 23.2 | 22.3 | 23.6 | 24.0 |
| 4H | 2H | 21.1 | 22.7 | 21.5 | 23.0 | 23.4 | 20.3 | 21.8 | 20.7 | 22.2 | 22.5 |
| | 3H | 23.4 | 24.7 | 23.8 | 25.1 | 25.5 | 22.0 | 23.3 | 22.4 | 23.7 | 24.1 |
| | 4H | 24.6 | 25.8 | 25.0 | 26.2 | 26.6 | 22.7 | 23.9 | 23.1 | 24.3 | 24.7 |
| | 6H | 25.7 | 26.8 | 26.1 | 27.2 | 27.6 | 23.2 | 24.3 | 23.7 | 24.7 | 25.2 |
| | 8H | 26.2 | 27.2 | 26.7 | 27.7 | 28.1 | 23.4 | 24.4 | 23.8 | 24.8 | 25.3 |
| | 12H | 26.8 | 27.7 | 27.2 | 28.1 | 28.6 | 23.5 | 24.4 | 24.0 | 24.9 | 25.4 |
| 8H | 4H | 24.9 | 25.9 | 25.4 | 26.4 | 26.8 | 23.4 | 24.3 | 23.8 | 24.8 | 25.3 |
| | 6H | 26.3 | 27.1 | 26.7 | 27.6 | 28.1 | 24.1 | 25.0 | 24.6 | 25.4 | 25.9 |
| | 8H | 26.9 | 27.7 | 27.4 | 28.2 | 28.7 | 24.4 | 25.2 | 24.9 | 25.6 | 26.2 |
| | 12H | 27.6 | 28.3 | 28.1 | 28.8 | 29.3 | 24.6 | 25.3 | 25.1 | 25.8 | 26.3 |
| 12H | 4H | 25.0 | 25.9 | 25.4 | 26.4 | 26.8 | 23.5 | 24.4 | 24.0 | 24.9 | 25.4 |
| | 6H | 26.4 | 27.1 | 26.9 | 27.6 | 28.1 | 24.4 | 25.1 | 24.9 | 25.6 | 26.1 |
| | 8H | 27.1 | 27.8 | 27.6 | 28.3 | 28.8 | 24.8 | 25.4 | 25.3 | 25.9 | 26.5 |

| | | | | | |
|------------------------|---|--------------------------------------|-----------------|--------------------|---------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1577 | H(C0) = 38 | H(C180) = 38 |
| | | | B = 90 | H(C90) = 38 | H(C270) = 38 |

| 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° | | 10315.3 | 10292.3 | 10164.9 | 10041.8 | 10020.0 | 10308.2 | 11266.4 | |
| 50° | | 10019.3 | 9981.4 | 9842.3 | 9657.7 | 9555.7 | 9753.7 | 10762.9 | |
| 55° | | 9708.9 | 9666.4 | 9506.8 | 9273.5 | 9093.1 | 9199.7 | 10215.0 | |
| 60° | | 9386.6 | 9337.5 | 9160.3 | 8860.6 | 8662.9 | 8639.5 | 9656.8 | |
| 65° | | 9101.2 | 9017.7 | 8838.2 | 8500.7 | 8243.5 | 8093.4 | 9097.5 | |
| 70° | | 8798.9 | 8694.8 | 8507.1 | 8121.0 | 7781.3 | 7448.4 | 8336.4 | |
| 75° | | 8500.9 | 8398.6 | 8193.8 | 7780.2 | 7281.7 | 6722.1 | 7346.4 | |
| 80° | | 8243.7 | 8125.3 | 7940.4 | 7479.6 | 6837.1 | 5853.0 | 5945.8 | |
| 85° | | 8097.8 | 7959.1 | 7805.8 | 7346.5 | 6578.4 | 5086.2 | 4100.1 | |

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Luminance values in cd/m²

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

siteco

