
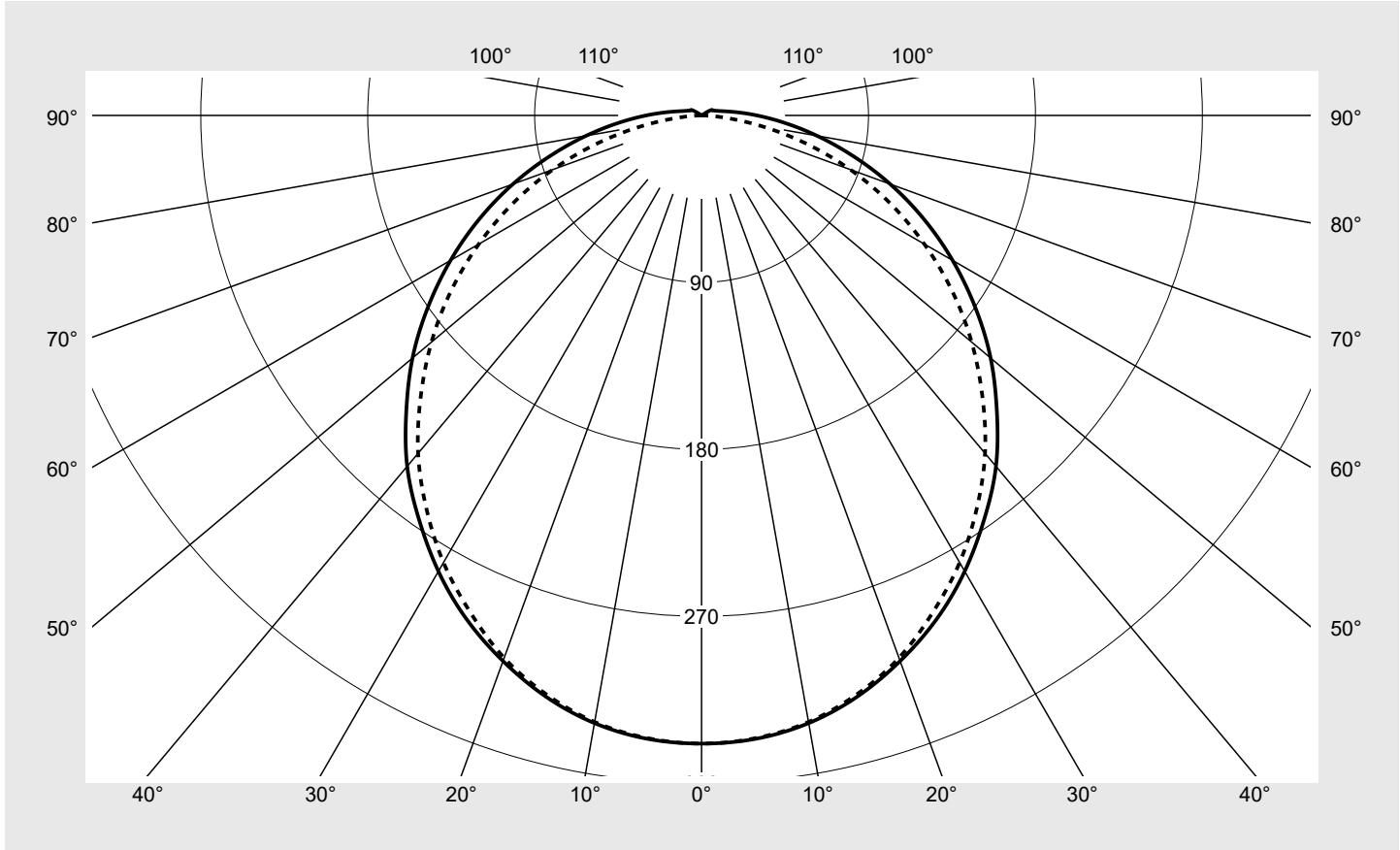


Photometric test report

| | | |
|--|--|---|
| Family Monsun® Ex | Order number: 51FXA27L460A EAN: 4058352933190 | LP number 59501_15 |
|  | Version prismatic diffuser, opal, polycarbonate, diffuse beam | serial documentation 04.03.2024 |
| | Lamps LED 4000 K CRI ≥ 80 | Rated values Net luminous flux = 6560 lm Power consumption = 53.0 W Luminous efficacy = 123.8 lm/W |
| | Controlgear ECG-DALI | |



Luminous intensity in cd/klm **C180-0** **C270-90** **Imax: 339 cd/klm**



| Classifications | |
|-----------------|-----------------------------------|
| DIN 5040 | A 4 1 |
| CIE | N1=46 N2=76 N3=94 N4=98 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 97.9% |
| ϕ_o | 2.1% |

| 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 |
| | | 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° | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 338.6 | 2.0 | 2.0 |
| 5° | 337.3 | 337.1 | 336.9 | 337.0 | 336.8 | 336.8 | 336.9 | 16.1 | 18.1 |
| 10° | 332.6 | 332.4 | 332.2 | 331.8 | 332.3 | 331.3 | 332.0 | 31.6 | 49.7 |
| 15° | 324.4 | 324.0 | 323.4 | 323.3 | 322.8 | 323.2 | 323.1 | 45.9 | 95.6 |
| 20° | 313.0 | 312.8 | 312.1 | 311.8 | 311.2 | 311.1 | 311.2 | 58.5 | 154.1 |
| 25° | 299.7 | 299.5 | 299.1 | 297.8 | 297.2 | 295.9 | 295.3 | 69.0 | 223.1 |
| 30° | 283.8 | 283.7 | 282.9 | 280.9 | 280.1 | 278.4 | 278.3 | 77.1 | 300.1 |
| 35° | 265.7 | 265.3 | 264.3 | 261.2 | 260.4 | 259.3 | 258.7 | 82.4 | 382.5 |
| 40° | 246.9 | 245.4 | 243.6 | 241.2 | 239.5 | 238.0 | 237.8 | 85.2 | 467.7 |
| 45° | 225.1 | 224.2 | 222.2 | 220.0 | 216.4 | 214.9 | 214.1 | 85.1 | 552.8 |
| 50° | 203.4 | 202.1 | 200.5 | 197.1 | 193.4 | 190.8 | 190.1 | 82.6 | 635.4 |
| 55° | 180.0 | 178.9 | 176.5 | 172.8 | 168.7 | 166.4 | 164.9 | 77.5 | 712.9 |
| 60° | 156.3 | 155.0 | 152.4 | 147.7 | 143.3 | 140.3 | 138.7 | 70.1 | 783.0 |
| 65° | 132.3 | 130.4 | 127.3 | 122.6 | 117.7 | 113.7 | 112.3 | 60.8 | 843.8 |
| 70° | 108.2 | 106.3 | 102.3 | 97.1 | 91.4 | 86.7 | 85.3 | 49.8 | 893.6 |
| 75° | 84.6 | 83.1 | 78.6 | 72.2 | 65.5 | 60.3 | 58.0 | 38.0 | 931.7 |
| 80° | 63.2 | 61.7 | 56.7 | 49.6 | 41.8 | 35.3 | 32.2 | 26.3 | 958.0 |
| 85° | 44.6 | 42.7 | 37.9 | 30.7 | 22.5 | 14.8 | 11.0 | 16.1 | 974.1 |
| 90° | 29.9 | 28.2 | 23.8 | 17.4 | 10.3 | 4.0 | 0.9 | 9.1 | 983.1 |
| 95° | 19.4 | 18.0 | 14.5 | 9.8 | 5.0 | 1.7 | 0.7 | 5.4 | 988.5 |
| 100° | 12.9 | 11.9 | 9.5 | 6.4 | 3.5 | 1.3 | 0.6 | 3.5 | 992.0 |
| 105° | 9.4 | 8.8 | 7.1 | 5.0 | 2.8 | 1.0 | 0.5 | 2.6 | 994.7 |
| 110° | 7.6 | 7.1 | 5.9 | 4.2 | 2.3 | 0.7 | 0.3 | 2.1 | 996.7 |
| 115° | 6.5 | 6.0 | 5.0 | 3.5 | 1.7 | 0.4 | 0.3 | 1.7 | 998.4 |
| 120° | 5.5 | 5.1 | 2.9 | 1.8 | 0.9 | 0.3 | 0.3 | 1.1 | 999.5 |
| 125° | 0.1 | 0.7 | 1.0 | 0.8 | 0.5 | 0.3 | 0.2 | 0.3 | 999.7 |
| 130° | 0.0 | 0.0 | 0.2 | 0.3 | 0.3 | 0.2 | 0.2 | 0.1 | 999.8 |
| 135° | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.0 | 999.9 |
| 140° | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 999.9 |
| 145° | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 999.9 |
| 150° | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.0 | 1000.0 |
| 155° | 0.1 | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 1000.0 |
| 160° | 0.1 | 0.1 | 0.1 | 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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|------------------|----------------------|---------------|
| 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 | 19.2 | 20.9 | 19.5 | 21.2 | 21.5 | 19.4 | 21.1 | 19.7 | 21.4 | 21.7 |
| | 3H | 20.8 | 22.3 | 21.2 | 22.7 | 23.0 | 20.9 | 22.4 | 21.3 | 22.8 | 23.1 |
| | 4H | 21.5 | 22.9 | 21.9 | 23.3 | 23.6 | 21.5 | 22.9 | 21.9 | 23.3 | 23.7 |
| | 6H | 22.1 | 23.4 | 22.5 | 23.8 | 24.2 | 21.8 | 23.2 | 22.2 | 23.6 | 24.0 |
| | 8H | 22.3 | 23.6 | 22.7 | 24.0 | 24.4 | 22.0 | 23.2 | 22.4 | 23.6 | 24.0 |
| | 12H | 22.5 | 23.7 | 23.0 | 24.1 | 24.5 | 22.0 | 23.2 | 22.4 | 23.6 | 24.0 |
| 4H | 2H | 19.9 | 21.4 | 20.3 | 21.7 | 22.1 | 20.1 | 21.5 | 20.5 | 21.9 | 22.2 |
| | 3H | 21.7 | 22.9 | 22.1 | 23.3 | 23.7 | 21.7 | 23.0 | 22.2 | 23.4 | 23.8 |
| | 4H | 22.5 | 23.6 | 22.9 | 24.0 | 24.5 | 22.4 | 23.5 | 22.8 | 23.9 | 24.4 |
| | 6H | 23.2 | 24.2 | 23.7 | 24.6 | 25.1 | 22.9 | 23.9 | 23.3 | 24.3 | 24.8 |
| | 8H | 23.5 | 24.4 | 24.0 | 24.9 | 25.3 | 23.0 | 23.9 | 23.5 | 24.4 | 24.8 |
| | 12H | 23.8 | 24.6 | 24.3 | 25.1 | 25.6 | 23.1 | 23.9 | 23.6 | 24.4 | 24.9 |
| 8H | 4H | 22.8 | 23.7 | 23.3 | 24.1 | 24.6 | 22.7 | 23.6 | 23.2 | 24.1 | 24.5 |
| | 6H | 23.6 | 24.4 | 24.1 | 24.9 | 25.4 | 23.3 | 24.1 | 23.8 | 24.5 | 25.0 |
| | 8H | 24.0 | 24.7 | 24.5 | 25.2 | 25.7 | 23.5 | 24.2 | 24.0 | 24.6 | 25.2 |
| | 12H | 24.4 | 25.0 | 24.9 | 25.5 | 26.0 | 23.6 | 24.2 | 24.1 | 24.7 | 25.2 |
| 12H | 4H | 22.8 | 23.7 | 23.3 | 24.1 | 24.6 | 22.8 | 23.6 | 23.3 | 24.1 | 24.5 |
| | 6H | 23.7 | 24.4 | 24.2 | 24.9 | 25.4 | 23.4 | 24.1 | 23.9 | 24.5 | 25.1 |
| | 8H | 24.2 | 24.7 | 24.7 | 25.2 | 25.8 | 23.6 | 24.2 | 24.1 | 24.7 | 25.2 |

| | | | | | |
|------------------------|---|--------------------------------------|-----------------|--------------------|---------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1280 | 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° | | 7959.4 | 7931.4 | 7998.7 | 8192.6 | 8466.0 | 8963.6 | 9635.0 | |
| 50° | | 7558.6 | 7516.4 | 7603.3 | 7770.8 | 8071.3 | 8573.8 | 9343.0 | |
| 55° | | 7105.4 | 7067.6 | 7132.4 | 7298.0 | 7607.2 | 8177.6 | 9002.9 | |
| 60° | | 6629.8 | 6581.1 | 6640.4 | 6767.4 | 7081.5 | 7665.6 | 8588.9 | |
| 65° | | 6116.0 | 6037.2 | 6068.0 | 6192.9 | 6492.9 | 7060.0 | 8104.6 | |
| 70° | | 5546.9 | 5455.0 | 5430.9 | 5511.9 | 5750.7 | 6288.8 | 7445.1 | |
| 75° | | 4905.6 | 4824.2 | 4745.3 | 4719.1 | 4842.3 | 5304.5 | 6472.2 | |
| 80° | | 4252.9 | 4156.6 | 4004.4 | 3854.5 | 3777.7 | 3981.7 | 5020.5 | |
| 85° | | 3609.3 | 3466.3 | 3257.0 | 2971.6 | 2636.9 | 2352.7 | 2891.8 | |

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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

