
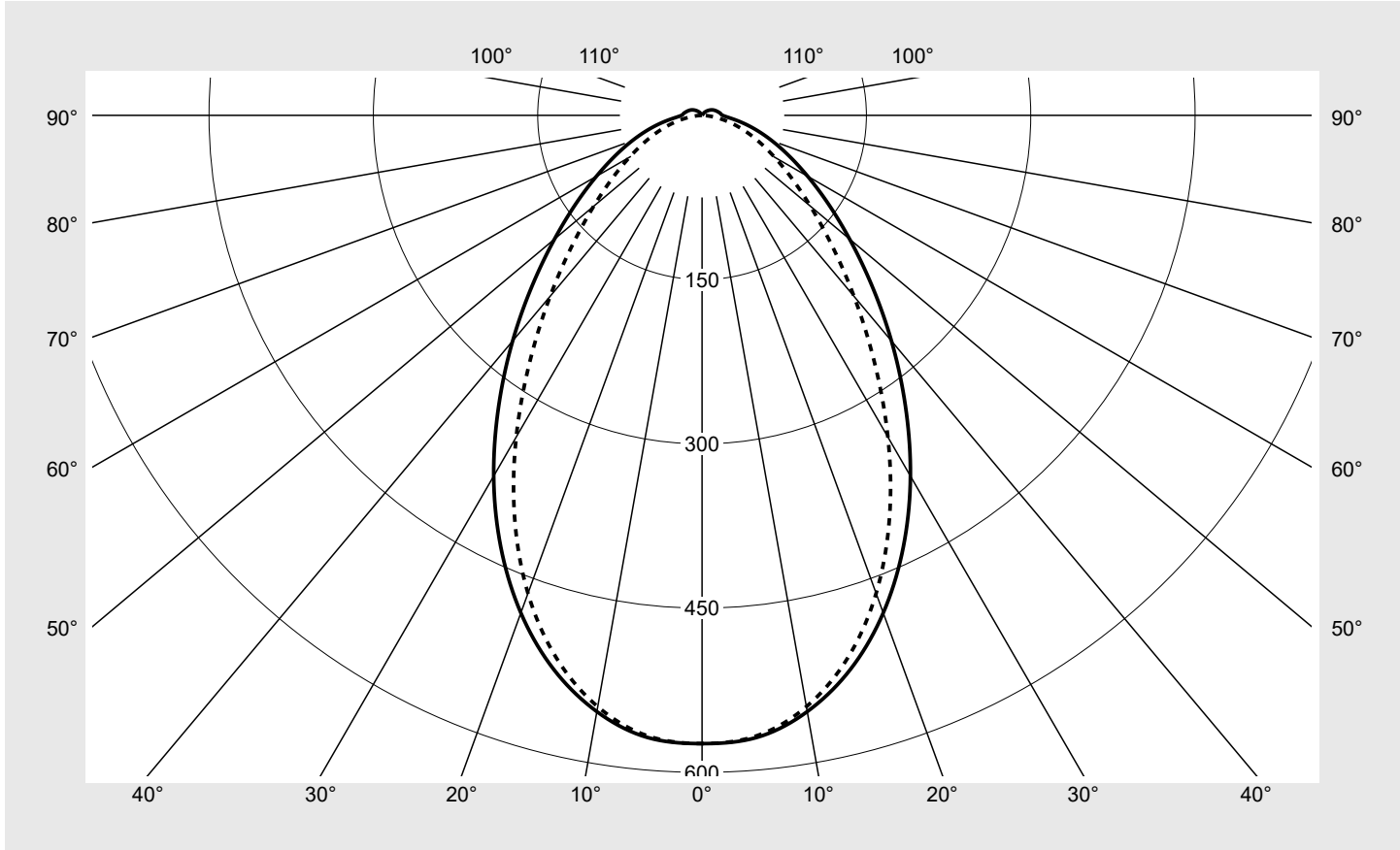


Photometric test report

| | | |
|--|---|--|
| Family Monsun® 12 | Order number: 51FP12MP4B0Q EAN: 4058352376485 | LP number 59017_2 |
|  | Version prismatic diffuser, opal, PMMA, medium distribution | serial documentation 08.04.2020 |
| | Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 11850 lm Power consumption = 66.2 W Luminous efficacy = 179 lm/W | |



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 574 cd/klm**



| Classifications | |
|-----------------|-----------------------------------|
| DIN 5040 | A 5 1 |
| CIE | N1=62 N2=86 N3=96 N4=97 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 96.8% |
| ϕ_o | 3.2% |

Measurement conditions
 DIN EN 13032 and DIN 5032

Photometric test report

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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° | 573.7 | 573.7 | 573.7 | 573.7 | 573.7 | 573.7 | 573.7 | 3.4 | 3.4 |
| 5° | 570.3 | 568.6 | 565.3 | 566.8 | 568.6 | 568.5 | 568.9 | 27.1 | 30.6 |
| 10° | 552.9 | 551.6 | 547.6 | 548.1 | 548.9 | 548.2 | 548.3 | 52.3 | 82.8 |
| 15° | 523.6 | 522.5 | 517.4 | 516.3 | 515.5 | 513.5 | 513.2 | 73.4 | 156.2 |
| 20° | 483.5 | 482.3 | 475.8 | 472.1 | 469.2 | 465.4 | 464.5 | 88.7 | 244.9 |
| 25° | 434.8 | 433.2 | 425.0 | 418.2 | 412.4 | 406.6 | 404.9 | 97.1 | 342.0 |
| 30° | 380.4 | 378.4 | 368.5 | 358.6 | 349.5 | 341.7 | 339.2 | 98.5 | 440.5 |
| 35° | 323.5 | 320.9 | 310.2 | 297.8 | 285.8 | 276.6 | 273.8 | 93.8 | 534.3 |
| 40° | 268.9 | 265.8 | 255.1 | 241.2 | 228.3 | 218.7 | 215.7 | 85.2 | 619.6 |
| 45° | 218.7 | 215.3 | 205.0 | 191.3 | 178.8 | 169.7 | 167.2 | 74.5 | 694.0 |
| 50° | 175.8 | 172.3 | 163.5 | 150.9 | 139.4 | 131.2 | 129.1 | 63.7 | 757.7 |
| 55° | 140.4 | 137.2 | 129.8 | 118.8 | 108.7 | 101.5 | 99.7 | 53.6 | 811.3 |
| 60° | 111.3 | 108.7 | 102.5 | 93.3 | 84.6 | 78.2 | 76.4 | 44.4 | 855.7 |
| 65° | 87.6 | 85.4 | 80.2 | 72.6 | 65.4 | 59.6 | 57.6 | 36.1 | 891.8 |
| 70° | 67.9 | 66.3 | 61.5 | 55.4 | 49.2 | 44.0 | 41.8 | 28.4 | 920.2 |
| 75° | 51.0 | 49.6 | 45.6 | 40.4 | 35.0 | 30.3 | 27.9 | 21.2 | 941.4 |
| 80° | 36.3 | 35.1 | 32.0 | 27.3 | 22.3 | 18.0 | 15.5 | 14.5 | 955.9 |
| 85° | 24.8 | 23.8 | 21.1 | 17.0 | 12.4 | 8.3 | 5.7 | 8.9 | 964.8 |
| 90° | 18.7 | 17.8 | 15.3 | 11.6 | 7.2 | 3.2 | 0.9 | 5.9 | 970.7 |
| 95° | 17.1 | 16.3 | 14.0 | 10.5 | 6.3 | 2.5 | 0.8 | 5.3 | 976.0 |
| 100° | 15.6 | 14.8 | 12.6 | 9.3 | 5.4 | 1.8 | 0.7 | 4.7 | 980.7 |
| 105° | 14.2 | 13.4 | 11.2 | 8.0 | 4.4 | 1.2 | 0.6 | 4.0 | 984.7 |
| 110° | 12.8 | 12.0 | 9.8 | 6.8 | 3.4 | 0.8 | 0.6 | 3.4 | 988.1 |
| 115° | 11.5 | 10.5 | 8.5 | 5.6 | 2.5 | 0.8 | 0.6 | 2.8 | 990.9 |
| 120° | 9.9 | 9.0 | 7.2 | 4.5 | 1.8 | 0.8 | 0.7 | 2.3 | 993.2 |
| 125° | 8.3 | 7.4 | 5.7 | 3.3 | 1.2 | 0.8 | 0.7 | 1.7 | 994.9 |
| 130° | 6.6 | 5.9 | 4.3 | 2.4 | 1.2 | 0.9 | 0.9 | 1.3 | 996.2 |
| 135° | 5.0 | 4.4 | 3.2 | 1.7 | 1.3 | 1.0 | 1.0 | 0.9 | 997.2 |
| 140° | 3.5 | 3.0 | 2.2 | 1.6 | 1.4 | 1.2 | 1.2 | 0.7 | 997.8 |
| 145° | 2.3 | 2.1 | 1.9 | 1.7 | 1.5 | 1.4 | 1.4 | 0.5 | 998.4 |
| 150° | 2.0 | 2.0 | 1.9 | 1.7 | 1.5 | 1.4 | 1.4 | 0.5 | 998.9 |
| 155° | 2.0 | 1.9 | 1.8 | 1.7 | 1.5 | 1.5 | 1.5 | 0.4 | 999.3 |
| 160° | 1.8 | 1.8 | 1.7 | 1.6 | 1.5 | 1.5 | 1.5 | 0.3 | 999.6 |
| 165° | 1.5 | 1.6 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 0.2 | 999.8 |
| 170° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0.1 | 999.9 |
| 175° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0.1 | 1000.0 |
| 180° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 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 | 21.5 | 23.0 | 21.8 | 23.3 | 23.6 | 20.4 | 21.9 | 20.8 | 22.2 | 22.6 |
| | 3H | 22.6 | 23.9 | 22.9 | 24.3 | 24.6 | 21.3 | 22.7 | 21.7 | 23.0 | 23.4 |
| | 4H | 23.1 | 24.3 | 23.4 | 24.7 | 25.1 | 21.7 | 23.0 | 22.1 | 23.3 | 23.7 |
| | 6H | 23.5 | 24.6 | 23.9 | 25.0 | 25.4 | 21.9 | 23.1 | 22.3 | 23.5 | 23.9 |
| | 8H | 23.7 | 24.7 | 24.1 | 25.1 | 25.5 | 22.0 | 23.1 | 22.5 | 23.5 | 23.9 |
| | 12H | 23.8 | 24.8 | 24.3 | 25.2 | 25.6 | 22.1 | 23.1 | 22.5 | 23.5 | 23.9 |
| 4H | 2H | 21.8 | 23.1 | 22.2 | 23.5 | 23.8 | 21.0 | 22.2 | 21.4 | 22.6 | 23.0 |
| | 3H | 23.1 | 24.2 | 23.6 | 24.6 | 25.0 | 22.1 | 23.1 | 22.5 | 23.5 | 23.9 |
| | 4H | 23.7 | 24.7 | 24.2 | 25.1 | 25.6 | 22.5 | 23.5 | 23.0 | 23.9 | 24.3 |
| | 6H | 24.3 | 25.1 | 24.7 | 25.6 | 26.0 | 22.9 | 23.7 | 23.3 | 24.1 | 24.6 |
| | 8H | 24.5 | 25.3 | 25.0 | 25.7 | 26.2 | 23.0 | 23.7 | 23.4 | 24.2 | 24.7 |
| | 12H | 24.8 | 25.4 | 25.2 | 25.9 | 26.4 | 23.0 | 23.7 | 23.5 | 24.2 | 24.7 |
| 8H | 4H | 23.9 | 24.7 | 24.4 | 25.1 | 25.6 | 22.8 | 23.6 | 23.3 | 24.0 | 24.5 |
| | 6H | 24.6 | 25.2 | 25.1 | 25.7 | 26.2 | 23.3 | 23.9 | 23.8 | 24.4 | 24.9 |
| | 8H | 24.9 | 25.5 | 25.4 | 25.9 | 26.5 | 23.4 | 24.0 | 23.9 | 24.5 | 25.0 |
| | 12H | 25.2 | 25.7 | 25.7 | 26.2 | 26.7 | 23.5 | 24.0 | 24.0 | 24.5 | 25.0 |
| 12H | 4H | 23.9 | 24.6 | 24.4 | 25.1 | 25.6 | 22.9 | 23.6 | 23.4 | 24.0 | 24.5 |
| | 6H | 24.6 | 25.2 | 25.1 | 25.7 | 26.2 | 23.4 | 23.9 | 23.9 | 24.4 | 24.9 |
| | 8H | 25.0 | 25.4 | 25.5 | 25.9 | 26.5 | 23.5 | 24.0 | 24.1 | 24.5 | 25.1 |

| | | | | | |
|------------------------|---|--------------------------------------|-----------------|--------------------|---------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1590 | H(C0) = 21 | H(C180) = 21 |
| | | | B = 87 | H(C90) = 21 | H(C270) = 21 |

| 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° | 21347.2 | 21092.4 | 20433.3 | 19635.8 | 19131.9 | 19115.6 | 19993.0 | |
| | 50° | 18193.5 | 17914.4 | 17335.9 | 16561.6 | 16053.3 | 16042.6 | 16940.5 | |
| | 55° | 15598.3 | 15315.3 | 14822.6 | 14119.0 | 13658.6 | 13684.7 | 14615.3 | |
| | 60° | 13449.2 | 13205.0 | 12780.1 | 12184.1 | 11798.3 | 11846.6 | 12797.5 | |
| | 65° | 11698.6 | 11487.9 | 11119.7 | 10614.3 | 10326.4 | 10397.7 | 11355.1 | |
| | 70° | 10219.8 | 10068.3 | 9678.6 | 9279.5 | 9039.3 | 9123.5 | 10105.6 | |
| | 75° | 8873.4 | 8725.4 | 8359.1 | 8005.1 | 7747.5 | 7822.0 | 8792.4 | |
| | 80° | 7568.5 | 7400.7 | 7105.7 | 6656.0 | 6298.6 | 6240.5 | 7117.8 | |
| | 85° | 6484.9 | 6305.9 | 5996.4 | 5467.9 | 4855.3 | 4372.0 | 4852.3 | |

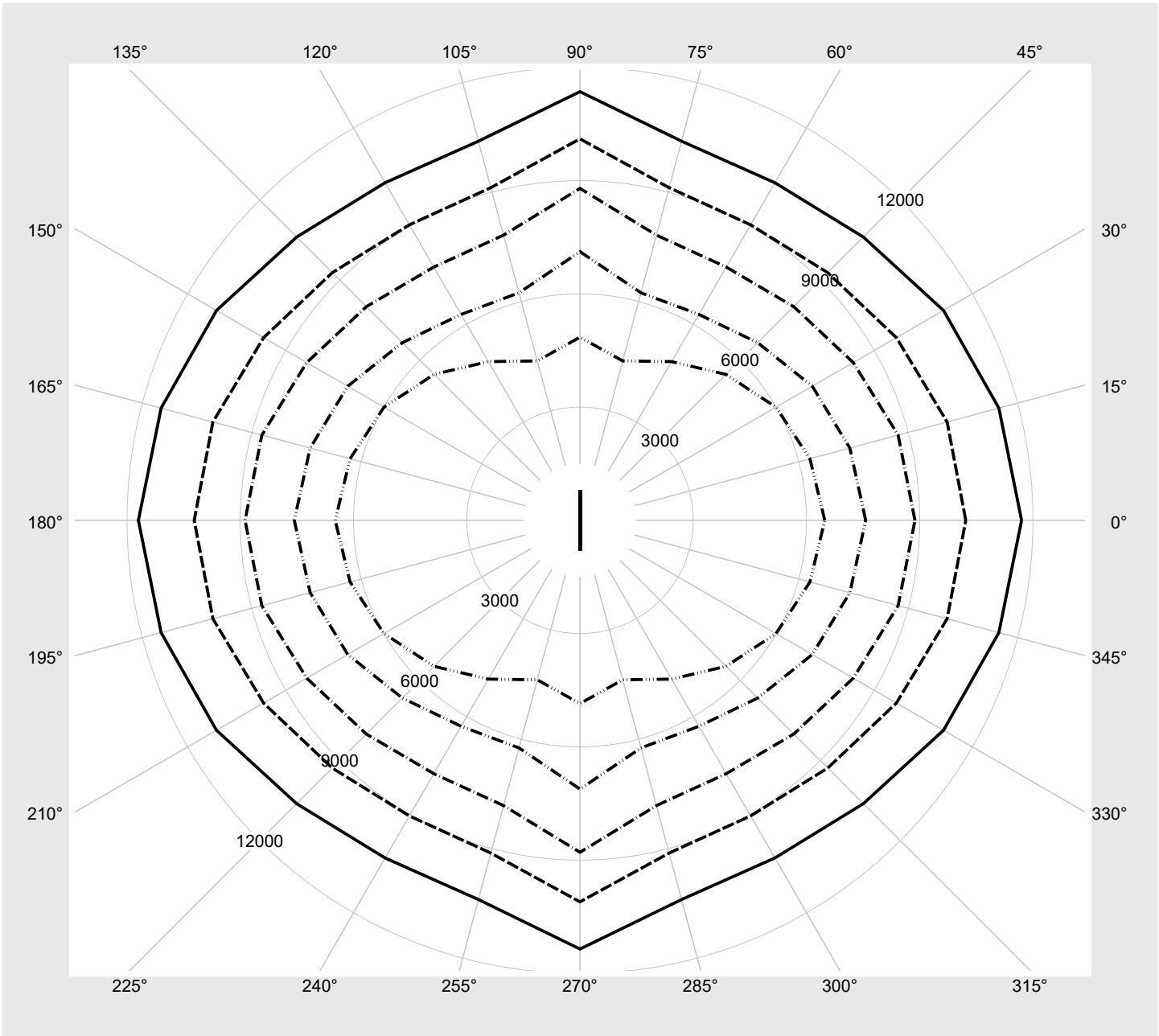
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Luminance values in cd/m²


γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



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| | | |
|-------------------------|---------------------------------|---|
| Multilumen Table | environmental temperature: 25°C |  |
|-------------------------|---------------------------------|---|

| DIP-Step | Switch Setting | | | Luminous flux [lm] | Power consumption [W] |
|----------|----------------|---|---|-----------------------|--------------------------|
| | 1 | 2 | 3 | | |
| 1 | A | C | E | 11850 | 66.2 |
| 2 | A | C | F | 11190 | 62.3 |
| 3 | A | D | E | 10610 | 58.8 |
| 4 | A | D | F | 10090 | 55.8 |
| 5 | B | C | E | 9500 | 52.3 |
| 6 | B | C | F | 8970 | 49.4 |
| 7 | B | D | E | 8520 | 46.8 |
| 8 | B | D | F | 7920 | 43.4 |