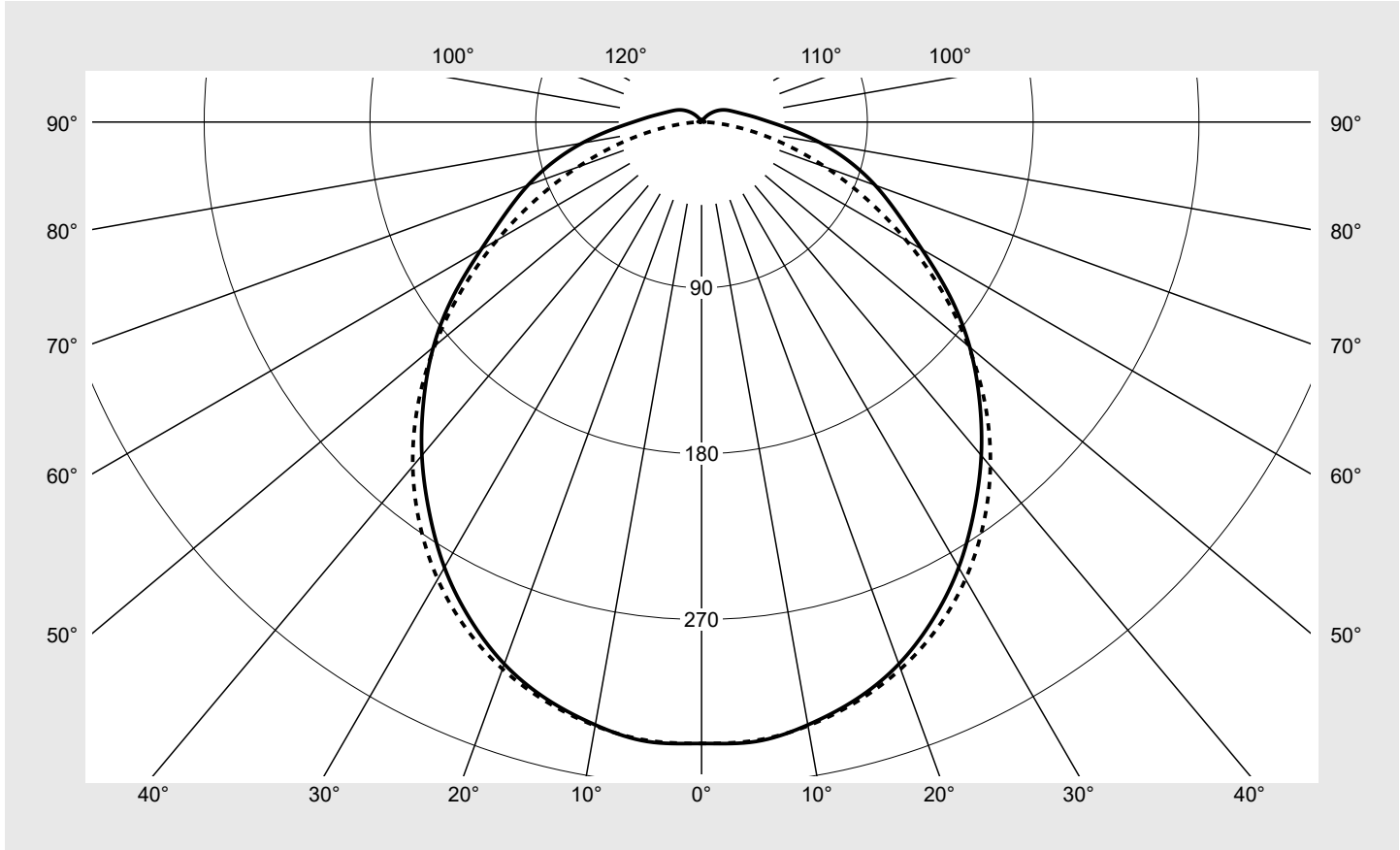


Photometric test report

| | | |
|--|--|---|
| Family Monsun® 12 | Order number: 51FF40MP360H EAN: 4058352820209 | LP number 59020_4 |
|  | Version prismatic diffuser, opal, PMMA, impact resistant, wide distribution | serial documentation 13.03.2023 |
| | Lamps LED 3000 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 5790 lm Power consumption = 33.6 W Luminous efficacy = 172.3 lm/W | |
| | |  |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 338 cd/klm**



| Classifications | |
|-----------------|-----------------------------------|
| DIN 5040 | A 4 1 |
| CIE | N1=47 N2=77 N3=93 N4=95 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 94.8% |
| ϕ_o | 5.2% |

Measurement conditions
 DIN EN 13032 and DIN 5032

Photometric test report

| | | |
|---|--|------------------------------------|
| Family Monsun® 12 | Order number: 51FF40MP360H EAN: 4058352820209 | LP number 59020_4 |
| 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° | 337.3 | 337.3 | 337.3 | 337.3 | 337.3 | 337.3 | 337.3 | 2.0 | 2.0 |
| 5° | 337.5 | 336.4 | 334.5 | 335.8 | 337.2 | 336.9 | 336.9 | 16.1 | 18.1 |
| 10° | 332.2 | 331.9 | 329.8 | 331.2 | 333.0 | 332.9 | 332.8 | 31.6 | 49.7 |
| 15° | 324.3 | 324.6 | 322.6 | 323.9 | 325.4 | 325.8 | 325.7 | 46.0 | 95.7 |
| 20° | 313.1 | 314.1 | 312.1 | 313.6 | 315.1 | 315.7 | 315.9 | 58.9 | 154.6 |
| 25° | 297.5 | 298.9 | 297.5 | 299.8 | 301.9 | 302.4 | 303.0 | 69.5 | 224.1 |
| 30° | 279.2 | 281.0 | 279.9 | 281.8 | 284.8 | 285.5 | 286.5 | 77.5 | 301.6 |
| 35° | 257.9 | 260.0 | 259.0 | 261.1 | 264.4 | 265.2 | 266.6 | 82.4 | 384.0 |
| 40° | 236.2 | 237.9 | 236.5 | 237.1 | 240.1 | 242.3 | 243.9 | 84.2 | 468.2 |
| 45° | 213.3 | 214.4 | 212.9 | 211.4 | 213.4 | 215.8 | 217.9 | 82.9 | 551.1 |
| 50° | 190.1 | 190.6 | 188.8 | 186.3 | 185.4 | 186.8 | 189.1 | 78.9 | 630.0 |
| 55° | 164.5 | 165.1 | 164.4 | 160.2 | 157.7 | 156.9 | 158.8 | 72.3 | 702.3 |
| 60° | 138.1 | 138.1 | 137.0 | 134.7 | 130.2 | 127.4 | 128.2 | 63.3 | 765.6 |
| 65° | 117.3 | 116.4 | 112.4 | 108.2 | 104.2 | 99.4 | 98.8 | 53.7 | 819.3 |
| 70° | 100.3 | 99.0 | 91.7 | 84.5 | 79.3 | 73.6 | 71.6 | 44.1 | 863.5 |
| 75° | 83.2 | 81.7 | 74.7 | 65.1 | 57.1 | 50.8 | 47.3 | 34.8 | 898.3 |
| 80° | 65.8 | 64.5 | 59.3 | 48.9 | 38.3 | 30.8 | 26.4 | 25.9 | 924.2 |
| 85° | 49.5 | 48.3 | 44.5 | 35.6 | 23.7 | 15.0 | 10.1 | 17.9 | 942.1 |
| 90° | 37.1 | 36.3 | 33.4 | 26.4 | 15.8 | 6.7 | 2.1 | 12.6 | 954.7 |
| 95° | 29.4 | 28.9 | 27.0 | 22.0 | 13.4 | 5.0 | 1.8 | 10.2 | 964.9 |
| 100° | 23.9 | 23.5 | 21.8 | 17.7 | 11.0 | 3.7 | 1.6 | 8.1 | 973.0 |
| 105° | 20.2 | 19.6 | 17.9 | 14.3 | 8.4 | 2.4 | 1.4 | 6.5 | 979.5 |
| 110° | 17.5 | 16.7 | 15.0 | 11.5 | 6.2 | 1.4 | 1.2 | 5.2 | 984.7 |
| 115° | 15.3 | 14.5 | 12.7 | 9.2 | 4.4 | 1.2 | 1.1 | 4.2 | 988.8 |
| 120° | 13.2 | 12.3 | 10.5 | 7.1 | 2.9 | 1.2 | 1.0 | 3.2 | 992.1 |
| 125° | 11.0 | 10.1 | 8.2 | 5.1 | 1.7 | 1.1 | 1.0 | 2.4 | 994.5 |
| 130° | 8.6 | 7.8 | 6.1 | 3.4 | 1.3 | 1.0 | 1.0 | 1.7 | 996.2 |
| 135° | 6.4 | 5.7 | 4.2 | 2.0 | 1.3 | 1.0 | 1.0 | 1.2 | 997.3 |
| 140° | 4.2 | 3.7 | 2.5 | 1.6 | 1.3 | 1.1 | 1.1 | 0.7 | 998.1 |
| 145° | 2.4 | 2.1 | 1.8 | 1.6 | 1.3 | 1.1 | 1.1 | 0.5 | 998.6 |
| 150° | 1.9 | 1.8 | 1.7 | 1.5 | 1.2 | 1.2 | 1.2 | 0.4 | 999.0 |
| 155° | 1.7 | 1.7 | 1.6 | 1.5 | 1.3 | 1.3 | 1.3 | 0.3 | 999.4 |
| 160° | 1.6 | 1.6 | 1.5 | 1.3 | 1.3 | 1.3 | 1.3 | 0.3 | 999.6 |
| 165° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 0.2 | 999.8 |
| 170° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 0.1 | 999.9 |
| 175° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.4 | 1.4 | 0.1 | 1000.0 |
| 180° | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 0.0 | 1000.0 |

Photometric test report

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| Family Monsun® 12 | Order number: 51FF40MP360H EAN: 4058352820209 | LP number 59020_4 |
|-----------------------------|--|-----------------------------|

| | | |
|------------------|----------------------|---------------|
| 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 | 19.8 | 21.5 | 20.2 | 21.9 | 22.2 | 20.1 | 21.8 | 20.5 | 22.1 | 22.5 |
| | 3H | 21.5 | 23.0 | 21.9 | 23.4 | 23.7 | 21.4 | 23.0 | 21.8 | 23.3 | 23.7 |
| | 4H | 22.3 | 23.7 | 22.7 | 24.1 | 24.4 | 21.9 | 23.4 | 22.3 | 23.7 | 24.1 |
| | 6H | 23.0 | 24.4 | 23.4 | 24.7 | 25.1 | 22.3 | 23.6 | 22.7 | 24.0 | 24.4 |
| | 8H | 23.4 | 24.6 | 23.8 | 25.0 | 25.4 | 22.4 | 23.6 | 22.8 | 24.0 | 24.4 |
| | 12H | 23.7 | 24.9 | 24.1 | 25.3 | 25.7 | 22.4 | 23.6 | 22.9 | 24.0 | 24.4 |
| 4H | 2H | 20.5 | 22.0 | 20.9 | 22.3 | 22.7 | 20.8 | 22.2 | 21.1 | 22.5 | 22.9 |
| | 3H | 22.4 | 23.6 | 22.8 | 24.0 | 24.4 | 22.2 | 23.5 | 22.7 | 23.9 | 24.3 |
| | 4H | 23.3 | 24.4 | 23.7 | 24.8 | 25.3 | 22.8 | 24.0 | 23.3 | 24.4 | 24.8 |
| | 6H | 24.2 | 25.2 | 24.7 | 25.6 | 26.1 | 23.3 | 24.3 | 23.7 | 24.7 | 25.2 |
| | 8H | 24.6 | 25.5 | 25.1 | 26.0 | 26.4 | 23.4 | 24.3 | 23.9 | 24.8 | 25.2 |
| | 12H | 25.0 | 25.8 | 25.5 | 26.3 | 26.8 | 23.5 | 24.3 | 24.0 | 24.8 | 25.3 |
| 8H | 4H | 23.6 | 24.5 | 24.1 | 25.0 | 25.4 | 23.2 | 24.1 | 23.7 | 24.5 | 25.0 |
| | 6H | 24.7 | 25.5 | 25.2 | 25.9 | 26.4 | 23.8 | 24.5 | 24.3 | 25.0 | 25.5 |
| | 8H | 25.2 | 25.9 | 25.7 | 26.4 | 26.9 | 24.0 | 24.7 | 24.5 | 25.1 | 25.7 |
| | 12H | 25.8 | 26.4 | 26.3 | 26.9 | 27.4 | 24.1 | 24.7 | 24.6 | 25.2 | 25.7 |
| 12H | 4H | 23.7 | 24.5 | 24.1 | 24.9 | 25.4 | 23.3 | 24.1 | 23.8 | 24.6 | 25.0 |
| | 6H | 24.8 | 25.5 | 25.3 | 25.9 | 26.5 | 23.9 | 24.6 | 24.4 | 25.1 | 25.6 |
| | 8H | 25.4 | 26.0 | 25.9 | 26.5 | 27.0 | 24.2 | 24.8 | 24.7 | 25.3 | 25.8 |

| | | | | | |
|------------------------|---|--------------------------------------|-----------------|--------------------|---------------------|
| 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° | | 10172.4 | 10261.6 | 10366.0 | 10604.4 | 11159.9 | 11881.7 | 12731.9 | |
| 50° | | 9611.5 | 9680.0 | 9782.0 | 9990.3 | 10430.8 | 11163.7 | 12123.5 | |
| 55° | | 8926.8 | 9004.7 | 9169.8 | 9298.5 | 9678.6 | 10337.0 | 11376.2 | |
| 60° | | 8151.8 | 8203.3 | 8351.4 | 8594.0 | 8868.6 | 9432.0 | 10489.2 | |
| 65° | | 7658.0 | 7647.7 | 7612.8 | 7734.0 | 8043.5 | 8475.1 | 9519.9 | |
| 70° | | 7380.4 | 7345.9 | 7046.9 | 6917.3 | 7119.9 | 7462.6 | 8456.4 | |
| 75° | | 7077.3 | 7021.2 | 6692.5 | 6296.3 | 6185.6 | 6408.3 | 7291.3 | |
| 80° | | 6699.7 | 6640.6 | 6430.7 | 5830.5 | 5277.2 | 5197.6 | 5911.5 | |
| 85° | | 6319.9 | 6268.6 | 6169.8 | 5588.7 | 4538.2 | 3868.3 | 4194.7 | |

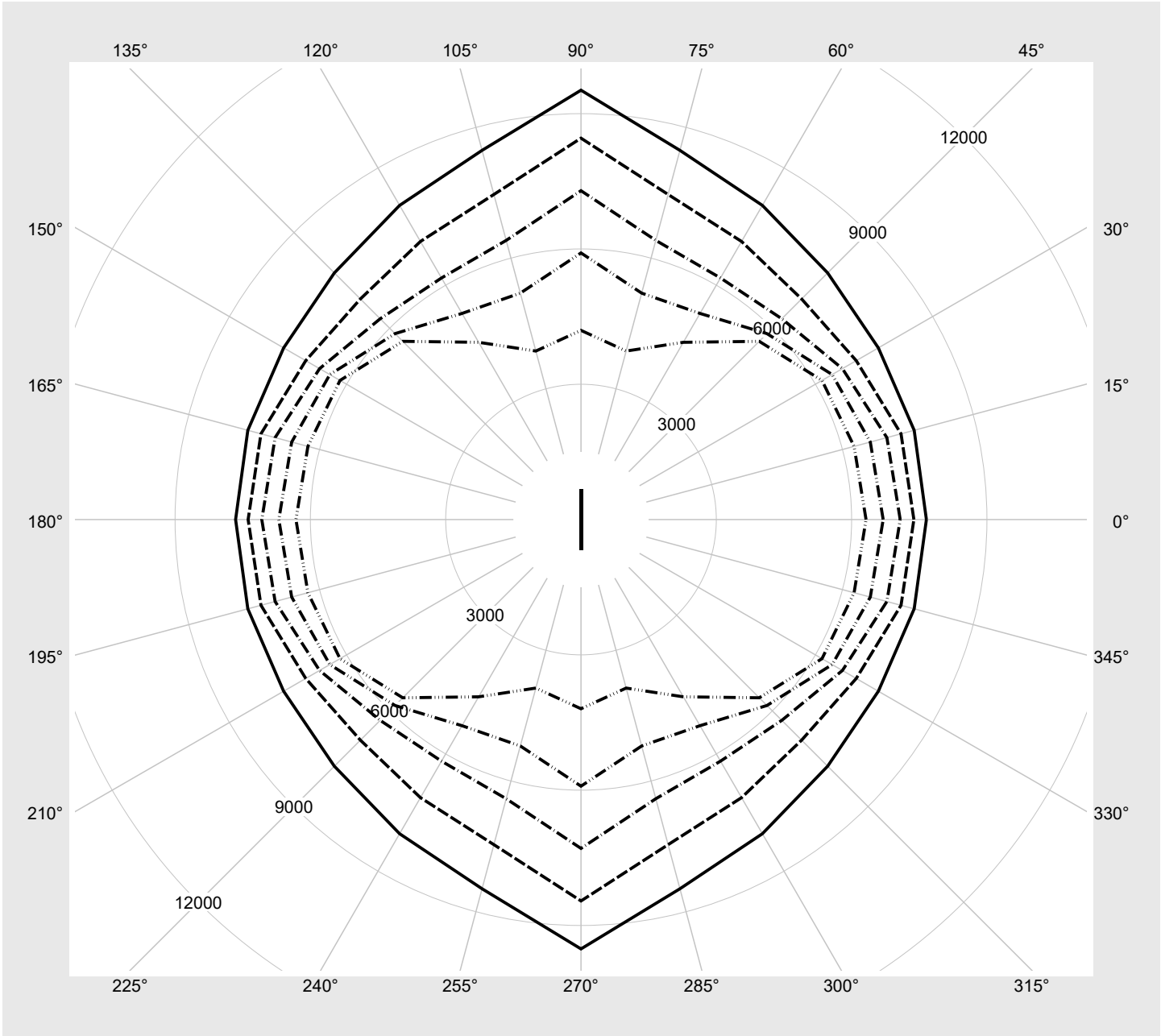
Photometric test report

| | | |
|------------------------------------|--|------------------------------------|
| Family Monsun® 12 | Order number: 51FF40MP360H EAN: 4058352820209 | LP number 59020_4 |
|------------------------------------|--|------------------------------------|

Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



Photometric test report

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|-----------------------------|--|-----------------------------|
| Family Monsun® 12 | Order number: 51FF40MP360H EAN: 4058352820209 | LP number 59020_4 |
|-----------------------------|--|-----------------------------|

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

| DIP-Step | Switch Setting | | | Luminous flux [lm] | Power consumption [W] |
|----------|----------------|---|---|-----------------------|--------------------------|
| | 1 | 2 | 3 | | |
| 1 | A | C | E | 5790 | 33.6 |
| 2 | A | C | F | 5580 | 32.3 |
| 3 | A | D | E | 5290 | 30.6 |
| 4 | A | D | F | 5000 | 28.9 |
| 5 | B | C | E | 4710 | 27.2 |
| 6 | B | C | F | 4410 | 25.5 |
| 7 | B | D | E | 4110 | 23.8 |
| 8 | B | D | F | 3960 | 22.9 |