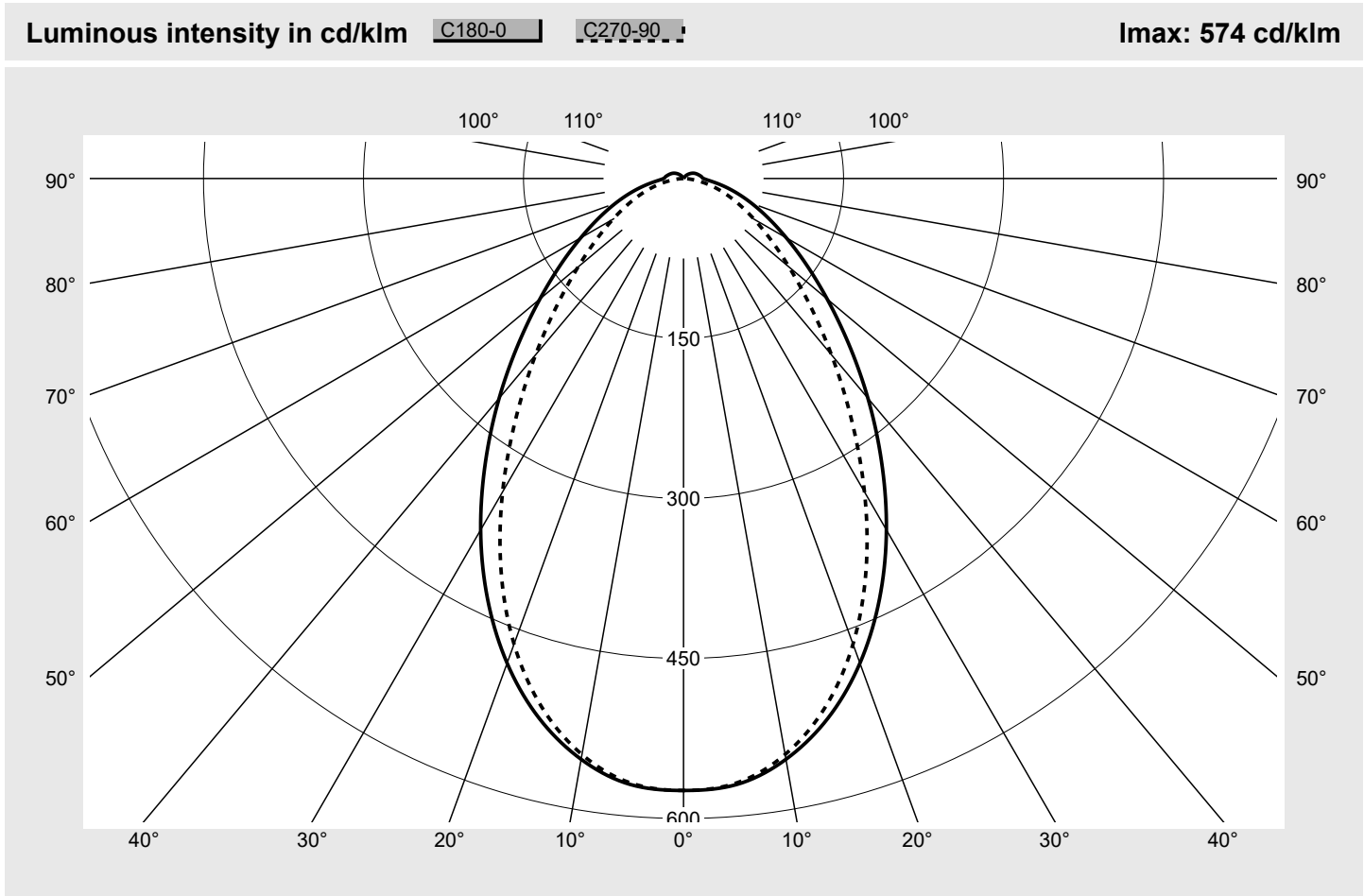


Photometric test report

|                                                                                  |                                                                |                                                                                              |
|----------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Family</b><br><b>Monsun® 11</b>                                               | <b>Order number: 51FP12MP4B0U</b><br><b>EAN: 4069025253248</b> | <b>LP number</b><br><b>59017_5</b>                                                           |
|  | <b>Version</b>                                                 | prismatic diffuser, opal, PMMA, medium distribution                                          |
|                                                                                  | <b>Lamps</b>                                                   | LED 4000 K   CRI ≥ 80                                                                        |
|                                                                                  | <b>Controlgear</b>                                             | ECG Multilumen                                                                               |
|                                                                                  | <b>Rated values</b>                                            | Net luminous flux = 11850 lm<br>Power consumption = 62.4 W<br>Luminous efficacy = 189.9 lm/W |
|                                                                                  |                                                                | <b>serial documentation</b><br><b>26.09.2024</b>                                             |
|                                                                                  |                                                                | <b>siteco</b>                                                                                |



| Classifications |                   | Luminaire light output ratios |        |
|-----------------|-------------------|-------------------------------|--------|
| DIN 5040        | A 5 1             | $\eta_{LB}$                   | 100.0% |
| CIE             | N1=62 N2=86 N3=96 | $\phi_u$                      | 96.8%  |
|                 | N4=97 N5=100      | $\phi_o$                      | 3.2%   |

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

Photometric test report

|                                          |                                                  |                            |
|------------------------------------------|--------------------------------------------------|----------------------------|
| Family<br>Monsun® 11                     | Order number: 51FP12MP4B0U<br>EAN: 4069025253248 | LP number<br>59017_5       |
| Table of values for luminous intensities |                                                  | Maximum luminous intensity |
|                                          |                                                  | siteco                     |

| C-<br>planes | 0°<br>180°                   | 15°<br>165°<br>195°<br>345° | 30°<br>150°<br>210°<br>330° | 45°<br>135°<br>225°<br>315° | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270° | Phi-zone                | Total<br>Phi-zone |
|--------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|-------------------------|-------------------|
| γ            | 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            |

Photometric test report

|                      |                                                  |                      |
|----------------------|--------------------------------------------------|----------------------|
| Family<br>Monsun® 11 | Order number: 51FP12MP4B0U<br>EAN: 4069025253248 | LP number<br>59017_5 |
| 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<br>B = 87          |                             | H(C0) = 21<br>H(C90) = 21 |  | H(C180) = 21<br>H(C270) = 21 |  |
|-----------------|--|---------------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|---------------------------|--|------------------------------|--|
| C-planes        |  | 0°<br>180°                      | 15°<br>165°<br>195°<br>345° | 30°<br>150°<br>210°<br>330°   | 45°<br>135°<br>225°<br>315° | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270°               |  |                              |  |
| $\gamma$        |  | Luminance in cd/m²              |                             |                               |                             |                             |                             |                           |  |                              |  |
| 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                    |  |                              |  |

Photometric test report

Family  
**Monsun® 11**

Order number: **51FP12MP4B0U**  
EAN: **4069025253248**

LP number  
**59017\_5**

Luminance values in cd/m²

γ 65°

γ 70°

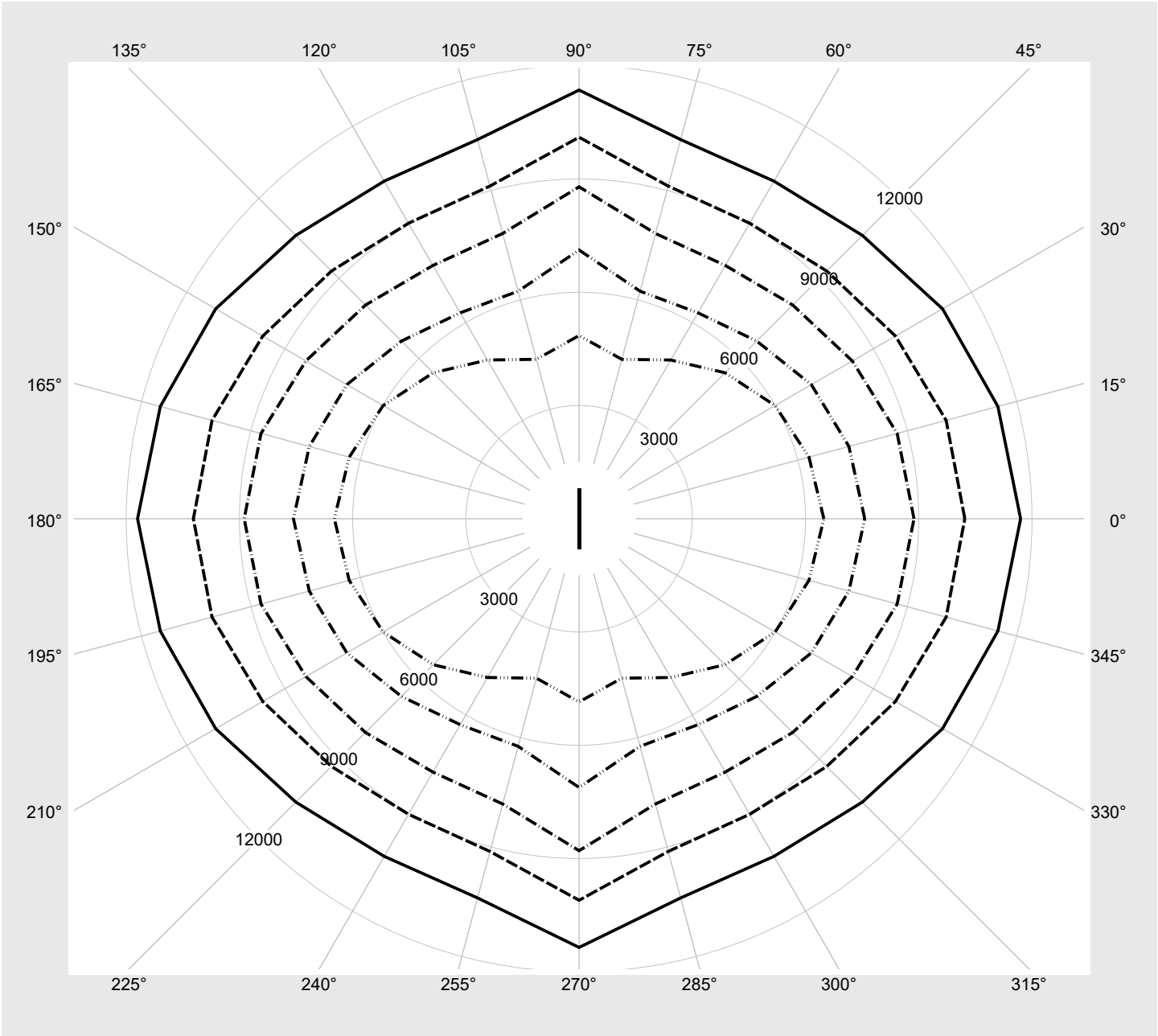
γ 75°

γ 80°

γ 85°

sit

eco



Photometric test report

|                      |                                                  |                      |
|----------------------|--------------------------------------------------|----------------------|
| Family<br>Monsun® 11 | Order number: 51FP12MP4B0U<br>EAN: 4069025253248 | LP number<br>59017_5 |
| Multilumen Table     | environmental temperature: 25°C                  | siteco               |

| DIP-Step | Switch Setting |   |   | Luminous flux<br>[lm] | Power consumption<br>[W] |
|----------|----------------|---|---|-----------------------|--------------------------|
|          | 1              | 2 | 3 |                       |                          |
| 1        | A              | C | E | 11850                 | 62.4                     |
| 2        | A              | C | F | 11190                 | 58.6                     |
| 3        | A              | D | E | 10610                 | 55.2                     |
| 4        | A              | D | F | 10090                 | 52.3                     |
| 5        | B              | C | E | 9500                  | 49.0                     |
| 6        | B              | C | F | 8970                  | 46.1                     |
| 7        | B              | D | E | 8520                  | 43.7                     |
| 8        | B              | D | F | 7920                  | 40.4                     |