

Photometric test report

Family  
Monsun® 11



Order number: 51FP10DP460L007  
EAN: 4069025268693

Version

Lamps

Controlgear

Rated values

prismatic diffuser, opal, PMMA, wide distribution

LED 4000 K | CRI ≥ 80

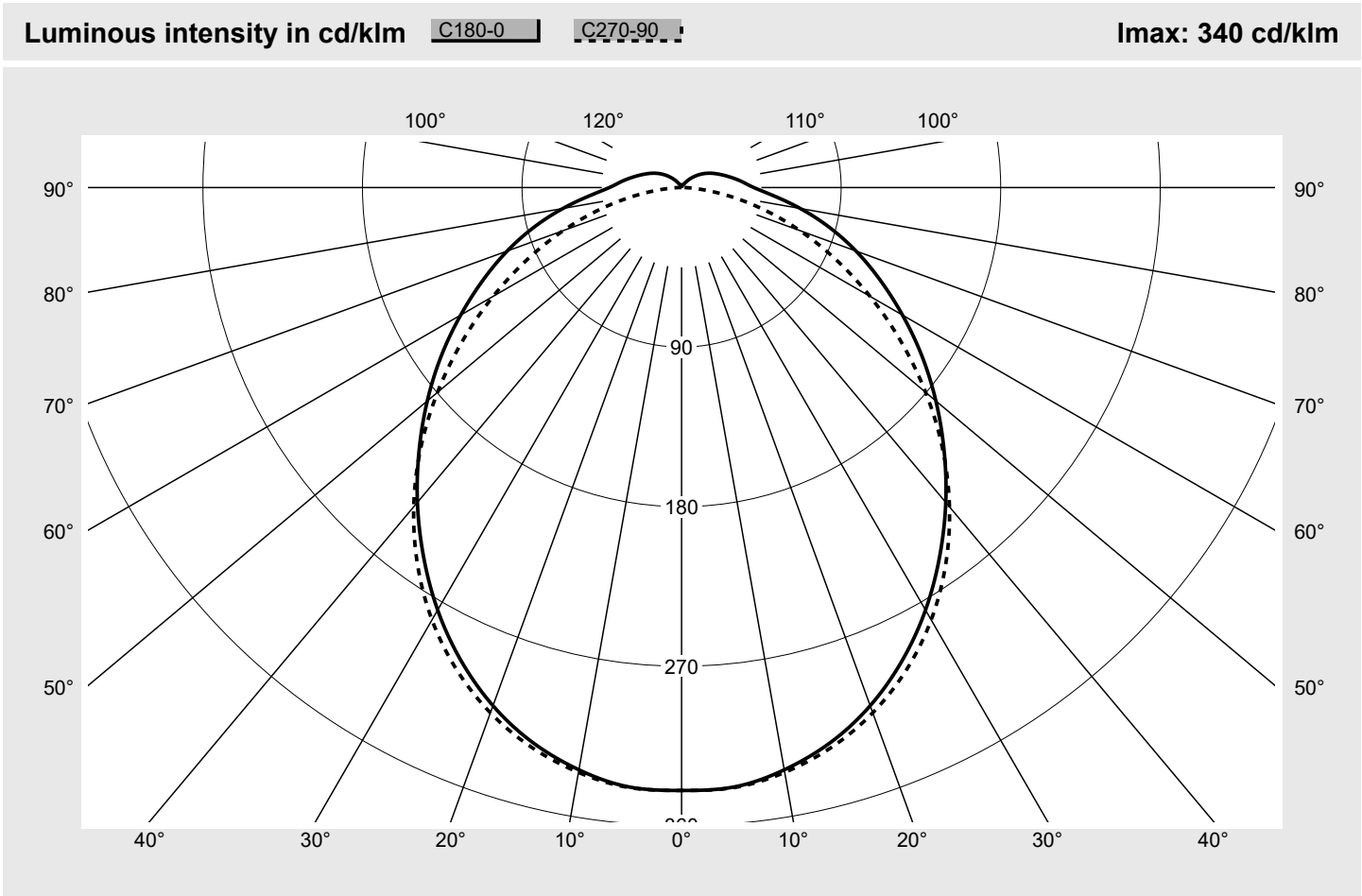
ECG-DALI

Net luminous flux = 6050 lm  
Power consumption = 31.5 W  
Luminous efficacy = 192.1 lm/W

LP number  
58939\_156

serial  
documentation  
30.09.2024

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| Classifications |                   | Luminaire light output ratios |        |
|-----------------|-------------------|-------------------------------|--------|
| DIN 5040        | A 4 1             | $\eta_{LB}$                   | 100.0% |
| CIE             | N1=47 N2=77 N3=93 | $\phi_u$                      | 94.2%  |
|                 | N4=94 N5=100      | $\phi_o$                      | 5.8%   |

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

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|                                          |                                                     |                            |
|------------------------------------------|-----------------------------------------------------|----------------------------|
| Family<br>Monsun® 11                     | Order number: 51FP10DP460L007<br>EAN: 4069025268693 | LP number<br>58939_156     |
| Table of values for luminous intensities |                                                     | Maximum luminous intensity |

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| 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°           | 340.1                        | 340.1                       | 340.1                       | 340.1                       | 340.1                       | 340.1                       | 340.1       | 2.0                     | 2.0               |
| 5°           | 339.4                        | 338.3                       | 336.5                       | 337.9                       | 339.5                       | 339.4                       | 339.8       | 16.2                    | 18.2              |
| 10°          | 333.5                        | 333.0                       | 331.2                       | 332.8                       | 334.6                       | 334.7                       | 335.0       | 31.7                    | 49.9              |
| 15°          | 324.2                        | 324.2                       | 322.5                       | 324.2                       | 326.1                       | 326.4                       | 326.9       | 46.1                    | 96.0              |
| 20°          | 311.0                        | 311.6                       | 310.1                       | 311.9                       | 314.1                       | 314.7                       | 315.3       | 58.6                    | 154.6             |
| 25°          | 294.4                        | 295.4                       | 294.1                       | 296.0                       | 298.4                       | 299.4                       | 300.2       | 68.7                    | 223.4             |
| 30°          | 275.2                        | 276.6                       | 275.1                       | 276.8                       | 279.4                       | 280.7                       | 281.6       | 76.1                    | 299.5             |
| 35°          | 253.9                        | 255.2                       | 253.8                       | 254.9                       | 257.1                       | 258.4                       | 259.7       | 80.5                    | 380.0             |
| 40°          | 231.8                        | 232.9                       | 231.3                       | 231.1                       | 232.5                       | 233.8                       | 235.1       | 81.9                    | 461.9             |
| 45°          | 209.4                        | 209.9                       | 207.8                       | 205.9                       | 206.1                       | 206.6                       | 208.2       | 80.4                    | 542.4             |
| 50°          | 187.2                        | 187.1                       | 184.8                       | 181.3                       | 179.3                       | 178.3                       | 179.7       | 76.6                    | 619.0             |
| 55°          | 165.5                        | 164.8                       | 162.1                       | 157.0                       | 153.1                       | 150.2                       | 150.9       | 70.7                    | 689.7             |
| 60°          | 143.9                        | 142.9                       | 139.5                       | 133.7                       | 127.9                       | 123.2                       | 122.7       | 63.3                    | 753.0             |
| 65°          | 123.6                        | 122.5                       | 117.8                       | 111.0                       | 104.2                       | 97.9                        | 96.0        | 54.9                    | 808.0             |
| 70°          | 104.7                        | 103.3                       | 97.1                        | 89.4                        | 81.7                        | 74.3                        | 71.0        | 45.8                    | 853.8             |
| 75°          | 86.1                         | 84.4                        | 77.8                        | 69.2                        | 60.2                        | 52.2                        | 47.8        | 36.3                    | 890.0             |
| 80°          | 68.0                         | 66.1                        | 60.2                        | 50.5                        | 40.7                        | 32.1                        | 26.9        | 26.7                    | 916.7             |
| 85°          | 51.8                         | 50.0                        | 44.6                        | 35.3                        | 24.7                        | 15.7                        | 10.1        | 18.3                    | 935.0             |
| 90°          | 40.8                         | 39.2                        | 34.4                        | 26.0                        | 15.9                        | 6.9                         | 1.8         | 13.1                    | 948.2             |
| 95°          | 34.8                         | 33.5                        | 29.7                        | 22.7                        | 13.6                        | 5.1                         | 1.6         | 11.2                    | 959.3             |
| 100°         | 29.9                         | 28.8                        | 25.4                        | 19.2                        | 11.3                        | 3.7                         | 1.4         | 9.4                     | 968.7             |
| 105°         | 25.7                         | 24.7                        | 21.4                        | 16.1                        | 8.8                         | 2.4                         | 1.2         | 7.7                     | 976.4             |
| 110°         | 22.1                         | 20.9                        | 18.0                        | 13.0                        | 6.6                         | 1.4                         | 1.1         | 6.1                     | 982.5             |
| 115°         | 19.0                         | 17.8                        | 15.0                        | 10.4                        | 4.7                         | 1.2                         | 1.1         | 4.9                     | 987.4             |
| 120°         | 16.0                         | 14.8                        | 12.2                        | 7.9                         | 3.1                         | 1.2                         | 1.0         | 3.8                     | 991.2             |
| 125°         | 13.0                         | 11.9                        | 9.4                         | 5.6                         | 1.7                         | 1.1                         | 0.9         | 2.7                     | 993.9             |
| 130°         | 10.1                         | 9.1                         | 6.9                         | 3.7                         | 1.4                         | 1.1                         | 1.0         | 1.9                     | 995.9             |
| 135°         | 7.3                          | 6.5                         | 4.6                         | 2.1                         | 1.4                         | 1.1                         | 1.1         | 1.3                     | 997.1             |
| 140°         | 4.8                          | 4.1                         | 2.7                         | 1.7                         | 1.4                         | 1.1                         | 1.1         | 0.8                     | 998.0             |
| 145°         | 2.6                          | 2.3                         | 1.9                         | 1.7                         | 1.4                         | 1.2                         | 1.2         | 0.5                     | 998.5             |
| 150°         | 2.0                          | 2.0                         | 1.9                         | 1.6                         | 1.3                         | 1.3                         | 1.3         | 0.4                     | 998.9             |
| 155°         | 1.9                          | 1.9                         | 1.7                         | 1.6                         | 1.4                         | 1.4                         | 1.4         | 0.4                     | 999.3             |
| 160°         | 1.7                          | 1.7                         | 1.6                         | 1.4                         | 1.4                         | 1.4                         | 1.4         | 0.3                     | 999.6             |
| 165°         | 1.4                          | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4         | 0.2                     | 999.8             |
| 170°         | 1.3                          | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4         | 0.1                     | 999.9             |
| 175°         | 1.4                          | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4         | 0.1                     | 1000.0            |
| 180°         | 1.4                          | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4         | 0.0                     | 1000.0            |

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|                      |                                                     |                        |
|----------------------|-----------------------------------------------------|------------------------|
| Family<br>Monsun® 11 | Order number: 51FP10DP460L007<br>EAN: 4069025268693 | LP number<br>58939_156 |
|----------------------|-----------------------------------------------------|------------------------|

| 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  | 20.1                | 21.8 | 20.4 | 22.1 | 22.4 | 20.1               | 21.8 | 20.4   | 22.1 | 22.4 |
|                              | 3H  | 21.8                | 23.4 | 22.2 | 23.7 | 24.0 | 21.4               | 23.0 | 21.8   | 23.3 | 23.7 |
|                              | 4H  | 22.6                | 24.1 | 23.0 | 24.4 | 24.8 | 22.0               | 23.4 | 22.4   | 23.8 | 24.1 |
|                              | 6H  | 23.4                | 24.7 | 23.8 | 25.1 | 25.5 | 22.3               | 23.7 | 22.7   | 24.0 | 24.4 |
|                              | 8H  | 23.8                | 25.0 | 24.2 | 25.4 | 25.8 | 22.5               | 23.7 | 22.9   | 24.1 | 24.5 |
|                              | 12H | 24.1                | 25.3 | 24.5 | 25.6 | 26.1 | 22.5               | 23.7 | 22.9   | 24.1 | 24.5 |
| 4H                           | 2H  | 20.8                | 22.2 | 21.2 | 22.6 | 22.9 | 20.8               | 22.2 | 21.2   | 22.6 | 22.9 |
|                              | 3H  | 22.7                | 24.0 | 23.1 | 24.3 | 24.7 | 22.3               | 23.6 | 22.7   | 24.0 | 24.4 |
|                              | 4H  | 23.7                | 24.8 | 24.1 | 25.2 | 25.6 | 23.0               | 24.1 | 23.4   | 24.5 | 24.9 |
|                              | 6H  | 24.6                | 25.6 | 25.0 | 26.0 | 26.5 | 23.4               | 24.4 | 23.9   | 24.9 | 25.3 |
|                              | 8H  | 25.0                | 25.9 | 25.5 | 26.4 | 26.8 | 23.6               | 24.5 | 24.1   | 25.0 | 25.4 |
|                              | 12H | 25.4                | 26.2 | 25.9 | 26.7 | 27.2 | 23.7               | 24.5 | 24.2   | 25.0 | 25.5 |
| 8H                           | 4H  | 24.0                | 24.9 | 24.5 | 25.4 | 25.8 | 23.4               | 24.3 | 23.9   | 24.7 | 25.2 |
|                              | 6H  | 25.1                | 25.8 | 25.6 | 26.3 | 26.8 | 24.0               | 24.8 | 24.5   | 25.2 | 25.7 |
|                              | 8H  | 25.6                | 26.3 | 26.1 | 26.8 | 27.3 | 24.2               | 24.9 | 24.7   | 25.4 | 25.9 |
|                              | 12H | 26.2                | 26.7 | 26.7 | 27.2 | 27.8 | 24.4               | 25.0 | 24.9   | 25.5 | 26.0 |
| 12H                          | 4H  | 24.0                | 24.9 | 24.5 | 25.3 | 25.8 | 23.5               | 24.3 | 24.0   | 24.7 | 25.2 |
|                              | 6H  | 25.2                | 25.8 | 25.7 | 26.3 | 26.8 | 24.2               | 24.8 | 24.7   | 25.3 | 25.8 |
|                              | 8H  | 25.8                | 26.3 | 26.3 | 26.8 | 27.4 | 24.4               | 25.0 | 24.9   | 25.5 | 26.0 |

| 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        | $\gamma$ | 0°                              | 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°               |  |                              |  |
|                 |          | Luminance in cd/m²              |                             |                               |                             |                             |                             |                           |  |                              |  |
|                 | 45°      | 10432.0                         | 10496.6                     | 10573.4                       | 10794.5                     | 11260.4                     | 11884.0                     | 12708.4                   |  |                              |  |
|                 | 50°      | 9894.0                          | 9930.7                      | 10004.9                       | 10157.5                     | 10541.7                     | 11133.9                     | 12037.3                   |  |                              |  |
|                 | 55°      | 9381.9                          | 9392.8                      | 9450.4                        | 9524.8                      | 9821.7                      | 10339.3                     | 11291.2                   |  |                              |  |
|                 | 60°      | 8875.8                          | 8868.3                      | 8883.8                        | 8911.9                      | 9107.6                      | 9535.1                      | 10495.3                   |  |                              |  |
|                 | 65°      | 8430.8                          | 8410.6                      | 8339.4                        | 8286.5                      | 8402.8                      | 8724.5                      | 9661.6                    |  |                              |  |
|                 | 70°      | 8048.8                          | 8003.3                      | 7795.7                        | 7648.4                      | 7662.0                      | 7870.8                      | 8766.0                    |  |                              |  |
|                 | 75°      | 7650.5                          | 7578.2                      | 7287.5                        | 6991.9                      | 6818.5                      | 6888.8                      | 7701.3                    |  |                              |  |
|                 | 80°      | 7228.3                          | 7108.3                      | 6817.0                        | 6291.5                      | 5853.3                      | 5658.5                      | 6297.9                    |  |                              |  |
|                 | 85°      | 6920.2                          | 6773.7                      | 6457.0                        | 5798.1                      | 4928.5                      | 4223.0                      | 4398.3                    |  |                              |  |

Photometric test report

Family  
**Monsun® 11**

Order number: **51FP10DP460L007**  
EAN: **4069025268693**

LP number  
**58939\_156**

Luminance values in cd/m²

γ 65°

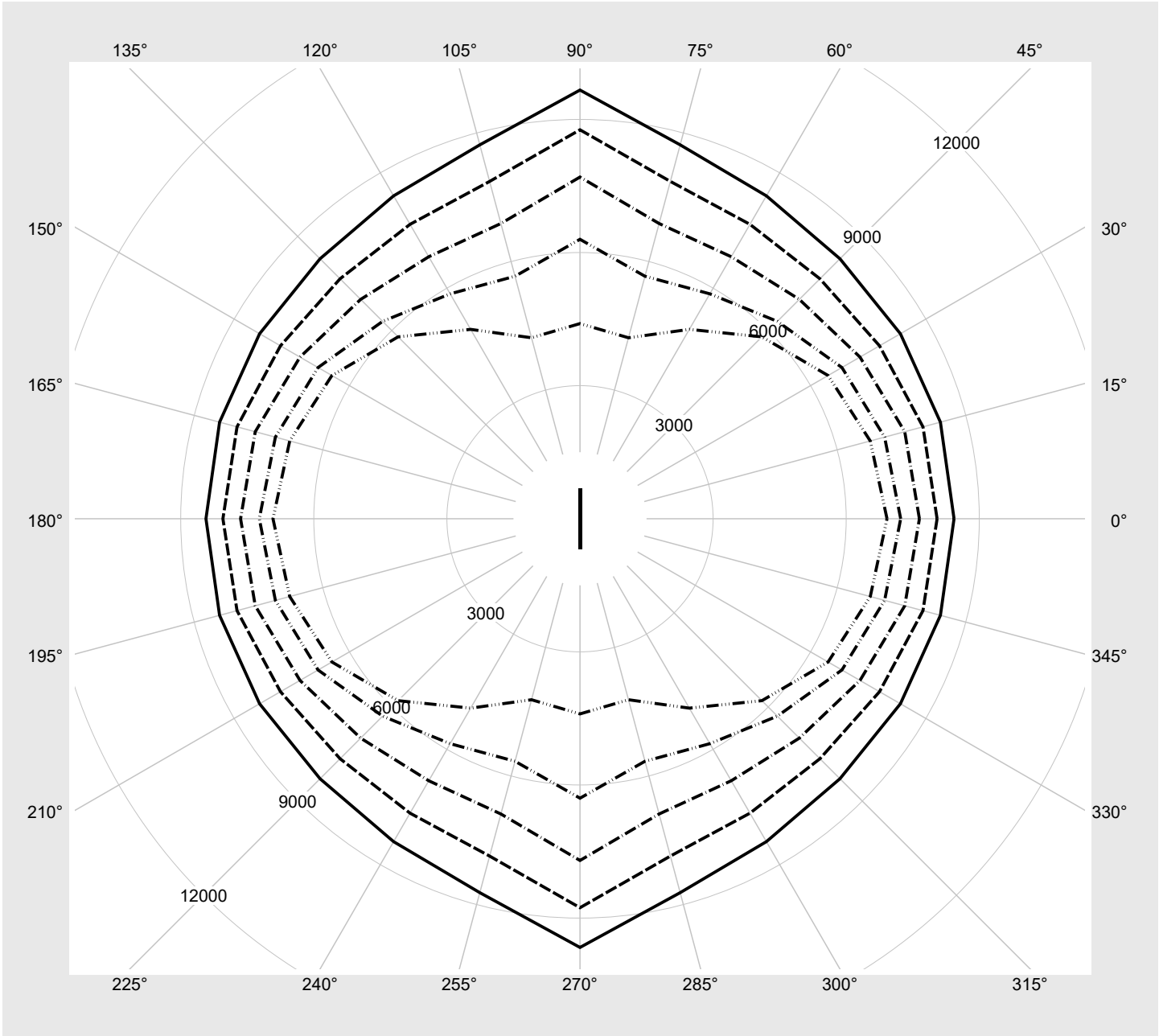
γ 70°

γ 75°

γ 80°

γ 85°

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|                      |                                                     |                                 |
|----------------------|-----------------------------------------------------|---------------------------------|
| Family<br>Monsun® 11 | Order number: 51FP10DP460L007<br>EAN: 4069025268693 | LP number<br>58939_156          |
| Dimming levels table |                                                     | environmental temperature: 25°C |

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| Luminous flux<br>% | Dimming level<br>linear | Dimming level<br>logarithmic | Luminous flux<br>[lm] | Power consumption<br>[W] |
|--------------------|-------------------------|------------------------------|-----------------------|--------------------------|
| 100                | 254                     | 254                          | 6050                  | 31.5                     |
| 95                 | 241                     | 252                          | 5757                  | 30.0                     |
| 90                 | 227                     | 250                          | 5440                  | 28.4                     |
| 85                 | 214                     | 248                          | 5144                  | 27.0                     |
| 80                 | 201                     | 245                          | 4846                  | 25.5                     |
| 75                 | 188                     | 243                          | 4546                  | 24.0                     |
| 70                 | 175                     | 240                          | 4245                  | 22.5                     |
| 65                 | 162                     | 238                          | 3941                  | 21.0                     |
| 60                 | 149                     | 234                          | 3636                  | 19.4                     |
| 55                 | 136                     | 231                          | 3329                  | 17.9                     |
| 50                 | 123                     | 227                          | 3019                  | 16.3                     |
| 45                 | 111                     | 224                          | 2732                  | 14.8                     |
| 40                 | 98                      | 219                          | 2418                  | 13.2                     |
| 35                 | 86                      | 214                          | 2128                  | 11.6                     |
| 30                 | 73                      | 208                          | 1811                  | 10.0                     |
| 25                 | 61                      | 202                          | 1516                  | 8.5                      |
| 20                 | 49                      | 194                          | 1218                  | 7.2                      |
| 15                 | 37                      | 183                          | 917                   | 5.8                      |
| 10                 | 25                      | 169                          | 615                   | 4.4                      |
| 5                  | 13                      | 145                          | 310                   | 3.2                      |
| 3                  | 8                       | 127                          | 182                   | 2.9                      |