

Lichttechnischer Prüfbefund

Familie  
Monsun® 11



Bestell-Nr.: 51FP10DP468L2  
EAN: 4069025268730

AusführungPrismenwanne, opal, PMMA, breit strahlend

BestückungLED 4000 K | CRI ≥ 80

BetriebsgerätEVG-DALI

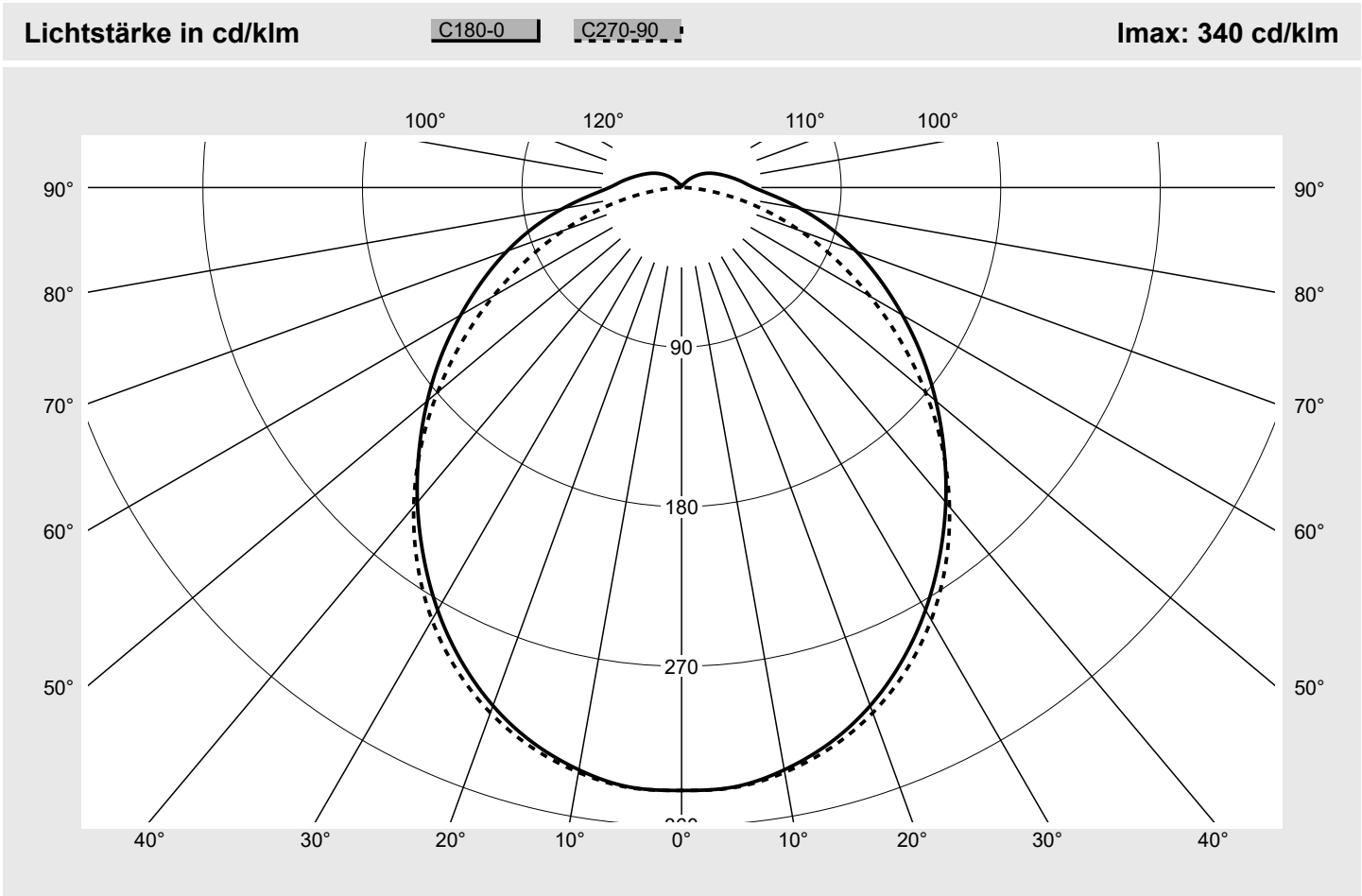
EinstellungAC-Betrieb

Bemessungswerte  
Nettolichtstrom = 6050 lm  
Systemleistung = 31.5 W  
Lichtausbeute = 192.1 lm/W

LP-Nummer  
58939\_160

Seriendokumentation  
30.09.2024

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| Klassifizierungen |                   | Leuchtenbetriebswirkungsgrade |        |
|-------------------|-------------------|-------------------------------|--------|
| 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%   |

| Messbedingungen           |
|---------------------------|
| DIN EN 13032 und DIN 5032 |

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|                                 |                                                  |                        |
|---------------------------------|--------------------------------------------------|------------------------|
| Familie<br>Monsun® 11           | Bestell-Nr.: 51FP10DP468L2<br>EAN: 4069025268730 | LP-Nummer<br>58939_160 |
| Wertetabelle Lichtstärkemessung |                                                  | Maximale Lichtstärke   |

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| C-<br>Ebenen | 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             | Summe<br>Phi-Zone |
|--------------|-----------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|----------------------|-------------------|
| γ            | Lichtstärke in cd/klm |                             |                             |                             |                             |                             |             | Lichtstrom 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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|                       |     |                                     |                                                  |      |      |      |                                       |      |      |                        |      |
|-----------------------|-----|-------------------------------------|--------------------------------------------------|------|------|------|---------------------------------------|------|------|------------------------|------|
| Familie<br>Monsun® 11 |     |                                     | Bestell-Nr.: 51FP10DP468L2<br>EAN: 4069025268730 |      |      |      |                                       |      |      | LP-Nummer<br>58939_160 |      |
| UGR-Tabelle           |     |                                     | Standardraum                                     |      |      |      |                                       |      |      | siteco                 |      |
| Reflexionsgrad Decke  |     | 0,7                                 | 0,7                                              | 0,5  | 0,5  | 0,3  | 0,7                                   | 0,7  | 0,5  | 0,5                    | 0,3  |
| Reflexionsgrad Wände  |     | 0,5                                 | 0,3                                              | 0,5  | 0,3  | 0,3  | 0,5                                   | 0,3  | 0,5  | 0,3                    | 0,3  |
| Reflexionsgrad Boden  |     | 0,2                                 | 0,2                                              | 0,2  | 0,2  | 0,2  | 0,2                                   | 0,2  | 0,2  | 0,2                    | 0,2  |
| Raumabmessungen       |     | Blickrichtung quer zur Leuchte (C0) |                                                  |      |      |      | Blickrichtung längs zur Leuchte (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 |

|                       |          |                                 |                             |                                       |                             |                             |                             |                              |
|-----------------------|----------|---------------------------------|-----------------------------|---------------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| Leuchtdichten-Tabelle |          | Max. für $\gamma \geq 65^\circ$ |                             | Lichttechnische<br>Abmessungen in mm: |                             | L = 1590<br>B = 87          | H(C0) = 21<br>H(C90) = 21   | H(C180) = 21<br>H(C270) = 21 |
| C-<br>Ebenen          | $\gamma$ | 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°                  |
|                       |          |                                 | Leuchtdichte 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                       |

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|                                     |                                                                |                                      |
|-------------------------------------|----------------------------------------------------------------|--------------------------------------|
| <b>Familie</b><br><b>Monsun® 11</b> | <b>Bestell-Nr.: 51FP10DP468L2</b><br><b>EAN: 4069025268730</b> | <b>LP-Nummer</b><br><b>58939_160</b> |
|-------------------------------------|----------------------------------------------------------------|--------------------------------------|

**Leuchtdichten in cd/m²**

γ 65°

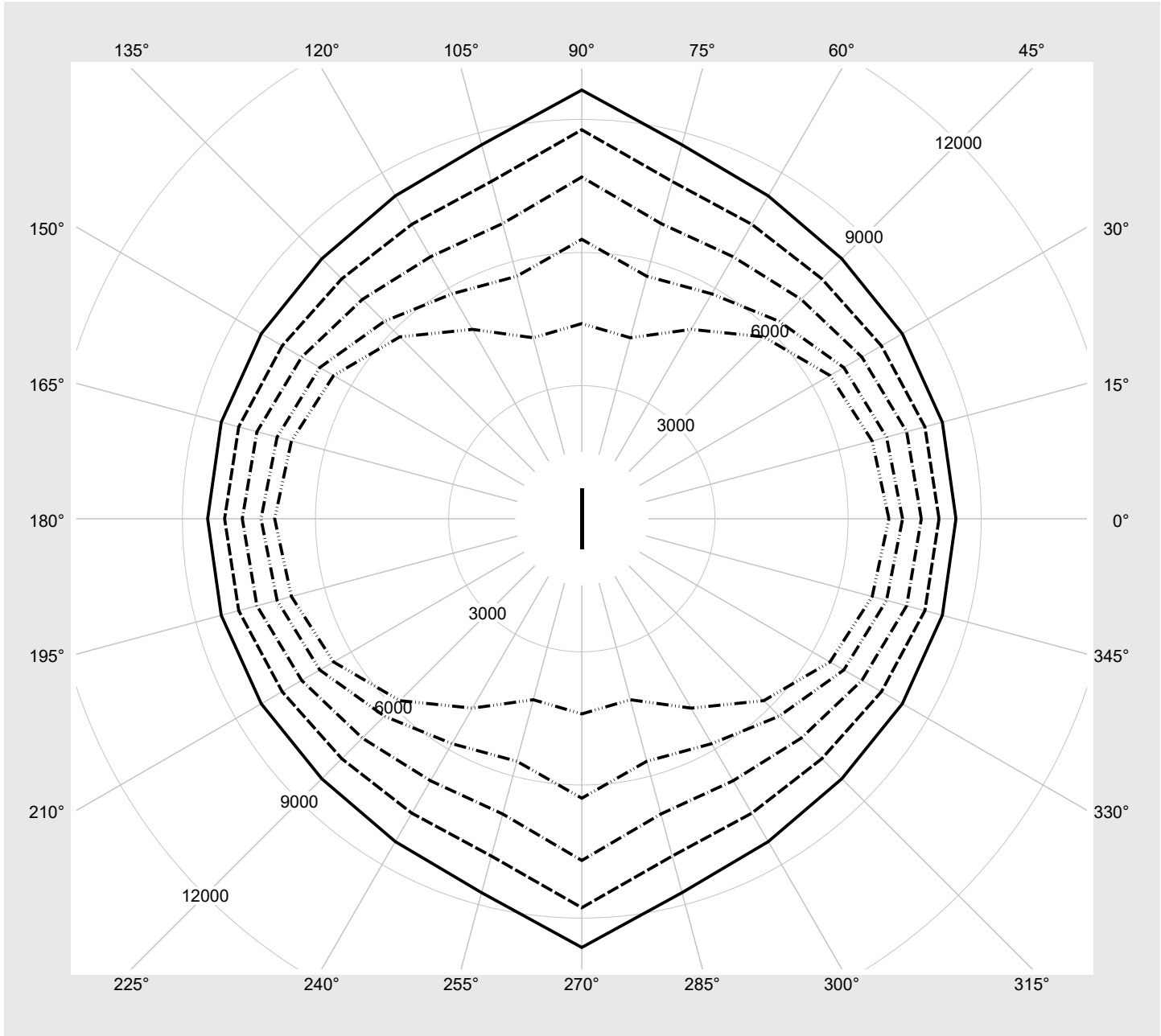
γ 70°

γ 75°

γ 80°

γ 85°

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|                                                                   |                                                                           |                                          |
|-------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------|
| <p>Familie</p> <p><b>Monsun® 11</b></p>                           | <p>Bestell-Nr.: <b>51FP10DP468L2</b></p> <p>EAN: <b>4069025268730</b></p> | <p>LP-Nummer</p> <p><b>58939_160</b></p> |
| <p><b>Dimmstufen-Tabelle</b></p> <p>Umgebungstemperatur: 25°C</p> |                                                                           | <p><b>sit</b>eco</p>                     |

| Lichtstrom<br>[%] | Dimmstufe<br>linear | Dimmstufe<br>logarithmisch | Lichtstrom<br>[lm] | Systemleistung<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                   |