

Lichttechnischer Prüfbefund

Familie  
Monsun® 21



Bestell-Nr.: 51FB107P437C3G  
EAN: 4069025177766

Ausführung

Prismenwanne, opal, PMMA, extrem breit strahlend

Bestückung

LED 4000 K | CRI ≥ 80

Betriebsgerät

EVG

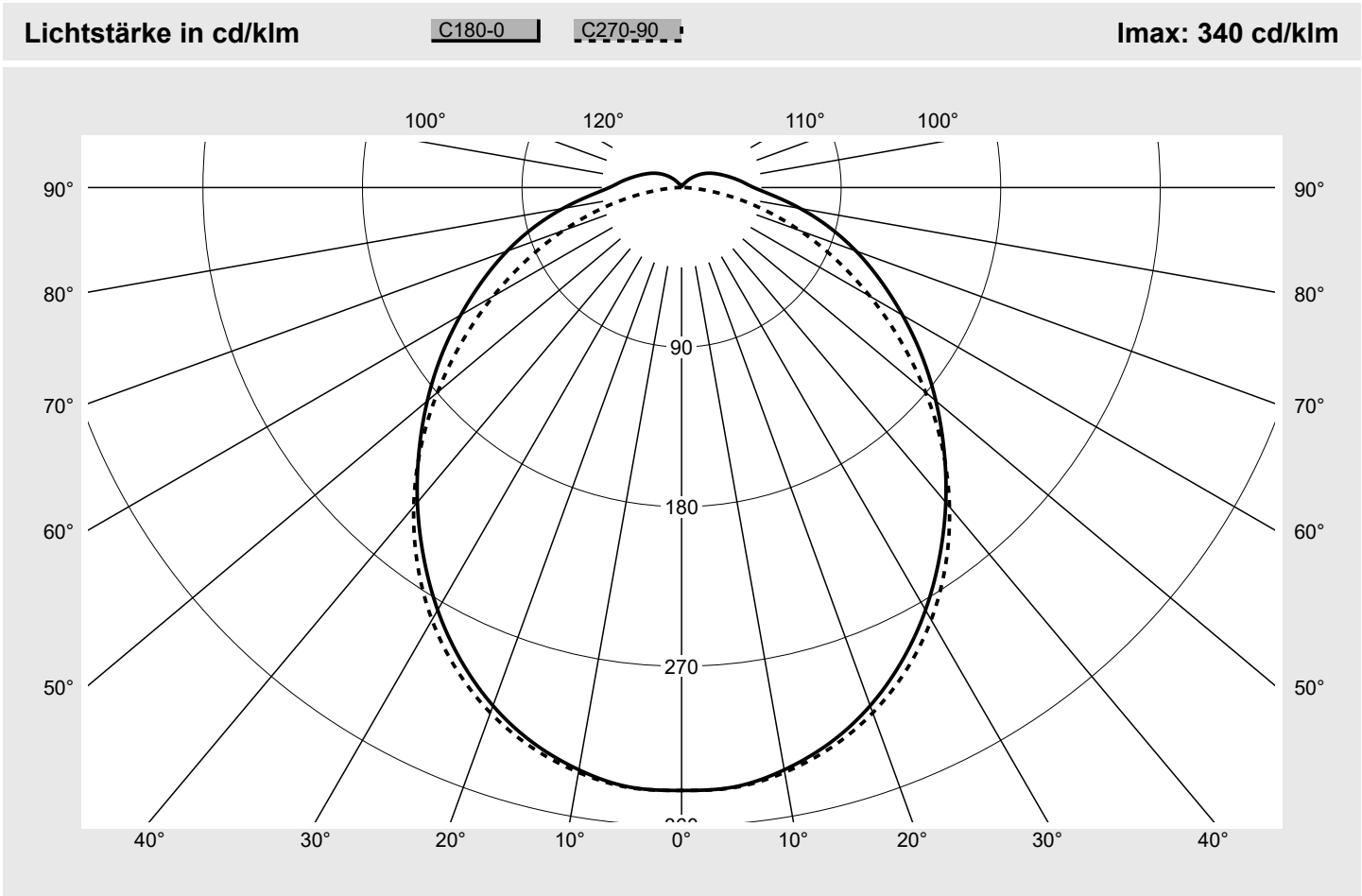
Bemessungswerte

Nettolichtstrom = 3860 lm  
Systemleistung = 25.9 W  
Lichtausbeute = 149 lm/W

LP-Nummer  
58939\_131

Seriedokumentation  
08.05.2024

siteco



| 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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|                                            |                                                                      |                                                   |
|--------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------|
| <div>Familie</div> <div>Monsun® 21</div>   | <div>Bestell-Nr.: 51FB107P437C3G</div> <div>EAN: 4069025177766</div> | <div>LP-Nummer</div> <div>58939_131</div>         |
| <div>Wertetabelle Lichtstärkemessung</div> |                                                                      | <div>Maximale Lichtstärke</div> <div>siteco</div> |

| 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® 21 |     |                                     | Bestell-Nr.: 51FB107P437C3G<br>EAN: 4069025177766 |      |      |      |                                       |      | LP-Nummer<br>58939_131 |      |      |
| 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  | 18,5                                | 20,2                                              | 18,9 | 20,5 | 20,8 | 18,5                                  | 20,2 | 18,9                   | 20,5 | 20,8 |
|                       | 3H  | 20,3                                | 21,8                                              | 20,6 | 22,1 | 22,5 | 19,9                                  | 21,4 | 20,3                   | 21,8 | 22,1 |
|                       | 4H  | 21,1                                | 22,5                                              | 21,5 | 22,9 | 23,2 | 20,4                                  | 21,9 | 20,8                   | 22,2 | 22,6 |
|                       | 6H  | 21,8                                | 23,2                                              | 22,2 | 23,5 | 23,9 | 20,8                                  | 22,1 | 21,2                   | 22,5 | 22,9 |
|                       | 8H  | 22,2                                | 23,4                                              | 22,6 | 23,8 | 24,2 | 20,9                                  | 22,2 | 21,3                   | 22,5 | 22,9 |
|                       | 12H | 22,5                                | 23,7                                              | 22,9 | 24,1 | 24,5 | 20,9                                  | 22,2 | 21,4                   | 22,5 | 23,0 |
| 4H                    | 2H  | 19,2                                | 20,7                                              | 19,6 | 21,0 | 21,4 | 19,2                                  | 20,6 | 19,6                   | 21,0 | 21,4 |
|                       | 3H  | 21,1                                | 22,4                                              | 21,6 | 22,8 | 23,2 | 20,8                                  | 22,0 | 21,2                   | 22,4 | 22,8 |
|                       | 4H  | 22,1                                | 23,2                                              | 22,5 | 23,6 | 24,1 | 21,4                                  | 22,5 | 21,9                   | 23,0 | 23,4 |
|                       | 6H  | 23,0                                | 24,0                                              | 23,5 | 24,4 | 24,9 | 21,9                                  | 22,9 | 22,3                   | 23,3 | 23,8 |
|                       | 8H  | 23,4                                | 24,4                                              | 23,9 | 24,8 | 25,3 | 22,0                                  | 23,0 | 22,5                   | 23,4 | 23,9 |
|                       | 12H | 23,9                                | 24,7                                              | 24,3 | 25,1 | 25,6 | 22,1                                  | 23,0 | 22,6                   | 23,4 | 23,9 |
| 8H                    | 4H  | 22,4                                | 23,4                                              | 22,9 | 23,8 | 24,3 | 21,8                                  | 22,7 | 22,3                   | 23,2 | 23,6 |
|                       | 6H  | 23,5                                | 24,3                                              | 24,0 | 24,7 | 25,2 | 22,4                                  | 23,2 | 22,9                   | 23,7 | 24,2 |
|                       | 8H  | 24,1                                | 24,7                                              | 24,5 | 25,2 | 25,7 | 22,7                                  | 23,3 | 23,2                   | 23,8 | 24,3 |
|                       | 12H | 24,6                                | 25,2                                              | 25,1 | 25,7 | 26,2 | 22,8                                  | 23,4 | 23,3                   | 23,9 | 24,4 |
| 12H                   | 4H  | 22,5                                | 23,3                                              | 23,0 | 23,8 | 24,2 | 21,9                                  | 22,7 | 22,4                   | 23,2 | 23,7 |
|                       | 6H  | 23,6                                | 24,3                                              | 24,1 | 24,8 | 25,3 | 22,6                                  | 23,3 | 23,1                   | 23,7 | 24,3 |
|                       | 8H  | 24,2                                | 24,8                                              | 24,7 | 25,3 | 25,8 | 22,9                                  | 23,5 | 23,4                   | 23,9 | 24,5 |

|                                 |          |                                 |                             |                                       |                             |                             |                             |                              |
|---------------------------------|----------|---------------------------------|-----------------------------|---------------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| 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°<br>50°<br>55°<br>60°        | $\gamma$ | 6655.8                          | 6697.0                      | 6746.0                                | 6887.0                      | 7184.3                      | 7582.2                      | 8108.2                       |
|                                 |          | 6312.5                          | 6335.9                      | 6383.3                                | 6480.7                      | 6725.8                      | 7103.6                      | 7680.0                       |
|                                 |          | 5985.8                          | 5992.8                      | 6029.5                                | 6077.0                      | 6266.4                      | 6596.6                      | 7204.0                       |
|                                 |          | 5662.9                          | 5658.1                      | 5668.0                                | 5686.0                      | 5810.8                      | 6083.5                      | 6696.1                       |
| 65°<br>70°<br>75°<br>80°<br>85° | $\gamma$ | 5379.0                          | 5366.1                      | 5320.7                                | 5286.9                      | 5361.2                      | 5566.4                      | 6164.3                       |
|                                 |          | 5135.3                          | 5106.3                      | 4973.8                                | 4879.8                      | 4888.5                      | 5021.7                      | 5592.9                       |
|                                 |          | 4881.1                          | 4835.0                      | 4649.5                                | 4461.0                      | 4350.3                      | 4395.2                      | 4913.6                       |
|                                 |          | 4611.8                          | 4535.2                      | 4349.3                                | 4014.1                      | 3734.5                      | 3610.2                      | 4018.2                       |
|                                 |          | 4415.2                          | 4321.8                      | 4119.7                                | 3699.3                      | 3144.5                      | 2694.4                      | 2806.2                       |

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|                                                                                                                                 |                                                                 |                                      |                   |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------|-------------------|
| <b>Familie</b><br><b>Monsun® 21</b>                                                                                             | <b>Bestell-Nr.: 51FB107P437C3G</b><br><b>EAN: 4069025177766</b> | <b>LP-Nummer</b><br><b>58939_131</b> |                   |
| <b>Leuchtdichten in cd/m²</b> <div> <div>γ 65°</div> <div>γ 70°</div> <div>γ 75°</div> <div>γ 80°</div> <div>γ 85°</div> </div> |                                                                 |                                      | <div>siteco</div> |

