

Lichttechnischer Prüfbefund

Familie  
Monsun® 11



Bestell-Nr.: 51FP207P437L3G  
EAN: 4069025280435

Ausführung

Bestückung

Betriebsgerät

Einstellung

Bemessungswerte

Prismenwanne, opal, PC, breit strahlend

LED 4000 K | CRI ≥ 80

EVG

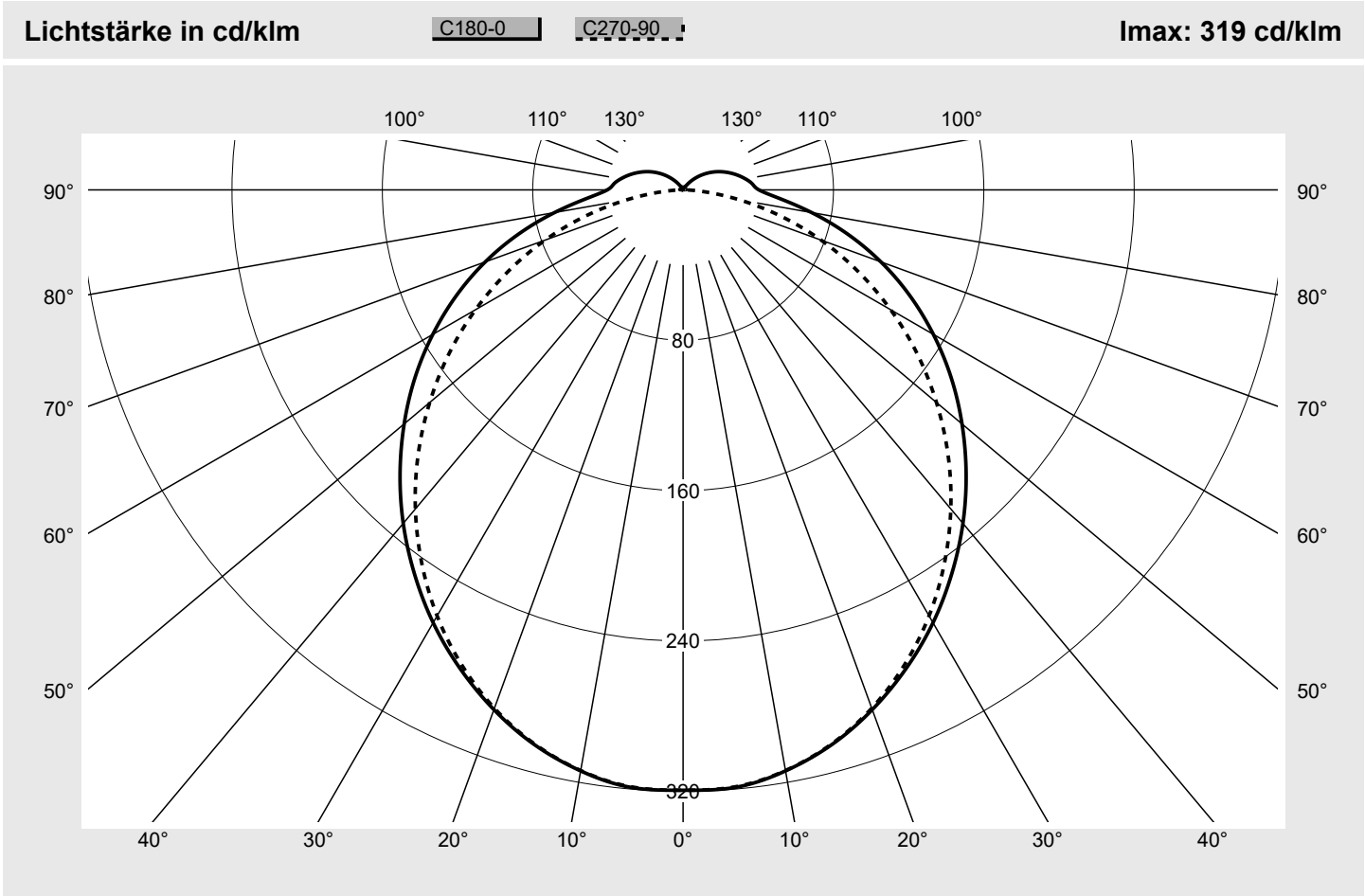
Notlichtbetrieb: 3 h

Nettolichtstrom = 890 lm  
Systemleistung = 6.4 W  
Lichtausbeute = 139.1 lm/W

LP-Nummer  
59060\_142

Seriedokumentation  
30.09.2024

siteco



| Klassifizierungen |                   | Leuchtenbetriebswirkungsgrade |        |
|-------------------|-------------------|-------------------------------|--------|
| DIN 5040          | A 4 1             | $\eta_{LB}$                   | 100,0% |
| CIE               | N1=45 N2=75 N3=93 | $\phi_u$                      | 93,7%  |
|                   | N4=94 N5=100      | $\phi_o$                      | 6,3%   |

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

Lichttechnischer Prüfbefund

|                                 |                                                   |                        |
|---------------------------------|---------------------------------------------------|------------------------|
| Familie<br>Monsun® 11           | Bestell-Nr.: 51FP207P437L3G<br>EAN: 4069025280435 | LP-Nummer<br>59060_142 |
| Wertetabelle Lichtstärkemessung |                                                   | Maximale Lichtstärke   |
|                                 |                                                   | siteco                 |

| 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°           | 319.4                 | 319.4                       | 319.4                       | 319.4                       | 319.4                       | 319.4                       | 319.4       | 1.9                  | 1.9               |
| 5°           | 319.1                 | 317.8                       | 316.0                       | 317.2                       | 318.6                       | 318.6                       | 318.8       | 15.2                 | 17.1              |
| 10°          | 313.9                 | 312.8                       | 311.0                       | 312.1                       | 313.5                       | 313.5                       | 313.7       | 29.8                 | 46.9              |
| 15°          | 305.6                 | 304.7                       | 302.7                       | 303.7                       | 305.0                       | 304.9                       | 305.2       | 43.2                 | 90.1              |
| 20°          | 294.3                 | 293.5                       | 291.4                       | 292.2                       | 293.3                       | 293.1                       | 293.5       | 54.9                 | 145.0             |
| 25°          | 280.9                 | 280.2                       | 277.7                       | 277.9                       | 278.8                       | 278.5                       | 278.8       | 64.6                 | 209.6             |
| 30°          | 265.9                 | 265.3                       | 262.4                       | 261.6                       | 261.9                       | 261.4                       | 261.7       | 72.0                 | 281.6             |
| 35°          | 249.2                 | 248.5                       | 245.6                       | 243.7                       | 242.9                       | 242.2                       | 242.4       | 77.0                 | 358.5             |
| 40°          | 231.6                 | 230.8                       | 227.5                       | 224.6                       | 222.7                       | 221.4                       | 221.6       | 79.5                 | 438.0             |
| 45°          | 212.9                 | 211.8                       | 208.5                       | 204.2                       | 201.3                       | 199.0                       | 199.4       | 79.5                 | 517.5             |
| 50°          | 193.7                 | 192.3                       | 188.8                       | 183.7                       | 179.4                       | 175.9                       | 176.0       | 77.3                 | 594.9             |
| 55°          | 174.1                 | 172.4                       | 168.8                       | 162.7                       | 157.2                       | 152.3                       | 152.1       | 73.1                 | 667.9             |
| 60°          | 153.8                 | 152.1                       | 148.1                       | 141.4                       | 134.9                       | 128.8                       | 127.5       | 66.9                 | 734.9             |
| 65°          | 133.1                 | 131.4                       | 127.0                       | 119.9                       | 112.8                       | 105.5                       | 102.8       | 59.2                 | 794.0             |
| 70°          | 112.0                 | 110.4                       | 105.0                       | 98.0                        | 90.2                        | 82.2                        | 78.2        | 49.9                 | 843.9             |
| 75°          | 90.5                  | 88.8                        | 83.0                        | 75.7                        | 67.3                        | 58.8                        | 53.6        | 39.3                 | 883.2             |
| 80°          | 69.4                  | 67.4                        | 62.0                        | 54.0                        | 45.3                        | 36.4                        | 30.4        | 28.3                 | 911.6             |
| 85°          | 51.2                  | 49.1                        | 43.8                        | 35.9                        | 26.7                        | 17.7                        | 11.3        | 18.6                 | 930.2             |
| 90°          | 40.3                  | 38.3                        | 33.0                        | 25.3                        | 16.4                        | 7.5                         | 1.9         | 12.9                 | 943.1             |
| 95°          | 36.9                  | 35.1                        | 30.2                        | 22.8                        | 14.1                        | 5.6                         | 1.6         | 11.6                 | 954.7             |
| 100°         | 33.7                  | 31.9                        | 27.1                        | 20.1                        | 11.9                        | 4.0                         | 1.5         | 10.1                 | 964.8             |
| 105°         | 30.1                  | 28.5                        | 23.8                        | 17.3                        | 9.5                         | 2.6                         | 1.3         | 8.6                  | 973.4             |
| 110°         | 26.5                  | 24.6                        | 20.5                        | 14.4                        | 7.3                         | 1.5                         | 1.2         | 7.1                  | 980.4             |
| 115°         | 22.8                  | 21.1                        | 17.3                        | 11.6                        | 5.2                         | 1.3                         | 1.2         | 5.7                  | 986.1             |
| 120°         | 19.1                  | 17.5                        | 14.1                        | 8.9                         | 3.4                         | 1.3                         | 1.1         | 4.4                  | 990.5             |
| 125°         | 15.4                  | 13.9                        | 10.8                        | 6.2                         | 1.7                         | 1.2                         | 1.0         | 3.2                  | 993.6             |
| 130°         | 11.8                  | 10.5                        | 7.7                         | 3.9                         | 1.4                         | 1.2                         | 1.0         | 2.2                  | 995.8             |
| 135°         | 8.3                   | 7.2                         | 5.0                         | 2.0                         | 1.4                         | 1.2                         | 1.1         | 1.4                  | 997.2             |
| 140°         | 5.1                   | 4.3                         | 2.5                         | 1.6                         | 1.3                         | 1.1                         | 1.0         | 0.8                  | 998.0             |
| 145°         | 2.4                   | 2.0                         | 1.8                         | 1.6                         | 1.4                         | 1.2                         | 1.2         | 0.5                  | 998.5             |
| 150°         | 1.9                   | 1.9                         | 1.8                         | 1.5                         | 1.4                         | 1.3                         | 1.2         | 0.4                  | 999.0             |
| 155°         | 1.8                   | 1.8                         | 1.6                         | 1.5                         | 1.4                         | 1.3                         | 1.3         | 0.4                  | 999.3             |
| 160°         | 1.6                   | 1.6                         | 1.5                         | 1.5                         | 1.4                         | 1.4                         | 1.3         | 0.3                  | 999.6             |
| 165°         | 1.5                   | 1.5                         | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.3         | 0.2                  | 999.8             |
| 170°         | 1.4                   | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.3         | 0.1                  | 999.9             |
| 175°         | 1.3                   | 1.3                         | 1.3                         | 1.4                         | 1.4                         | 1.4                         | 1.3         | 0.1                  | 1000.0            |
| 180°         | 1.3                   | 1.3                         | 1.3                         | 1.3                         | 1.3                         | 1.3                         | 1.3         | 0.0                  | 1000.0            |

Lichttechnischer Prüfbefund

|                       |     |                                     |                                                   |      |      |      |                                       |      |                        |      |      |
|-----------------------|-----|-------------------------------------|---------------------------------------------------|------|------|------|---------------------------------------|------|------------------------|------|------|
| Familie<br>Monsun® 11 |     |                                     | Bestell-Nr.: 51FP207P437L3G<br>EAN: 4069025280435 |      |      |      |                                       |      | LP-Nummer<br>59060_142 |      |      |
| 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  | 13,7                                | 15,4                                              | 14,0 | 15,7 | 16,1 | 13,5                                  | 15,2 | 13,9                   | 15,5 | 15,9 |
|                       | 3H  | 15,5                                | 17,1                                              | 15,9 | 17,4 | 17,8 | 15,1                                  | 16,6 | 15,4                   | 17,0 | 17,3 |
|                       | 4H  | 16,3                                | 17,8                                              | 16,7 | 18,2 | 18,5 | 15,7                                  | 17,2 | 16,1                   | 17,5 | 17,9 |
|                       | 6H  | 17,1                                | 18,4                                              | 17,5 | 18,8 | 19,2 | 16,1                                  | 17,5 | 16,5                   | 17,8 | 18,2 |
|                       | 8H  | 17,4                                | 18,7                                              | 17,8 | 19,1 | 19,5 | 16,2                                  | 17,5 | 16,7                   | 17,9 | 18,3 |
|                       | 12H | 17,7                                | 18,9                                              | 18,1 | 19,3 | 19,7 | 16,3                                  | 17,5 | 16,7                   | 17,9 | 18,3 |
| 4H                    | 2H  | 14,4                                | 15,9                                              | 14,8 | 16,3 | 16,6 | 14,3                                  | 15,8 | 14,7                   | 16,1 | 16,5 |
|                       | 3H  | 16,4                                | 17,7                                              | 16,9 | 18,1 | 18,5 | 16,0                                  | 17,3 | 16,5                   | 17,7 | 18,1 |
|                       | 4H  | 17,4                                | 18,6                                              | 17,8 | 19,0 | 19,4 | 16,8                                  | 17,9 | 17,2                   | 18,3 | 18,8 |
|                       | 6H  | 18,3                                | 19,3                                              | 18,7 | 19,7 | 20,2 | 17,3                                  | 18,3 | 17,8                   | 18,8 | 19,2 |
|                       | 8H  | 18,7                                | 19,6                                              | 19,1 | 20,0 | 20,5 | 17,5                                  | 18,4 | 17,9                   | 18,9 | 19,3 |
|                       | 12H | 19,0                                | 19,9                                              | 19,5 | 20,3 | 20,8 | 17,6                                  | 18,4 | 18,1                   | 18,9 | 19,4 |
| 8H                    | 4H  | 17,7                                | 18,7                                              | 18,2 | 19,1 | 19,6 | 17,2                                  | 18,1 | 17,7                   | 18,6 | 19,0 |
|                       | 6H  | 18,8                                | 19,6                                              | 19,3 | 20,0 | 20,5 | 17,9                                  | 18,7 | 18,4                   | 19,1 | 19,6 |
|                       | 8H  | 19,3                                | 20,0                                              | 19,8 | 20,5 | 21,0 | 18,1                                  | 18,8 | 18,6                   | 19,3 | 19,8 |
|                       | 12H | 19,8                                | 20,4                                              | 20,3 | 20,9 | 21,4 | 18,3                                  | 18,9 | 18,8                   | 19,4 | 19,9 |
| 12H                   | 4H  | 17,8                                | 18,6                                              | 18,3 | 19,1 | 19,6 | 17,3                                  | 18,1 | 17,8                   | 18,6 | 19,1 |
|                       | 6H  | 18,9                                | 19,6                                              | 19,4 | 20,0 | 20,6 | 18,0                                  | 18,7 | 18,5                   | 19,2 | 19,7 |
|                       | 8H  | 19,4                                | 20,0                                              | 19,9 | 20,5 | 21,0 | 18,3                                  | 18,9 | 18,8                   | 19,4 | 19,9 |

|                       |          |                                 |                             |                                       |                             |                             |                             |                              |
|-----------------------|----------|---------------------------------|-----------------------------|---------------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| 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°                   |          | 1560.8                          | 1558.7                      | 1560.4                                | 1574.8                      | 1617.5                      | 1683.9                      | 1790.3                       |
| 50°                   |          | 1505.8                          | 1501.4                      | 1503.7                                | 1514.1                      | 1551.5                      | 1615.6                      | 1734.0                       |
| 55°                   |          | 1452.3                          | 1445.2                      | 1447.4                                | 1451.7                      | 1483.4                      | 1542.6                      | 1674.3                       |
| 60°                   |          | 1395.2                          | 1388.1                      | 1387.6                                | 1387.4                      | 1412.8                      | 1466.1                      | 1604.1                       |
| 65°                   |          | 1335.1                          | 1327.6                      | 1321.5                                | 1317.4                      | 1337.8                      | 1382.3                      | 1521.2                       |
| 70°                   |          | 1266.7                          | 1258.5                      | 1240.9                                | 1233.3                      | 1244.7                      | 1280.7                      | 1419.1                       |
| 75°                   |          | 1183.2                          | 1172.7                      | 1143.5                                | 1125.8                      | 1120.5                      | 1141.5                      | 1270.8                       |
| 80°                   |          | 1085.8                          | 1066.7                      | 1033.8                                | 989.2                       | 958.8                       | 945.5                       | 1049.5                       |
| 85°                   |          | 1006.4                          | 979.4                       | 933.3                                 | 865.9                       | 784.0                       | 700.7                       | 725.9                        |

Lichttechnischer Prüfbefund

|                                     |                                                                 |                                      |
|-------------------------------------|-----------------------------------------------------------------|--------------------------------------|
| <b>Familie</b><br><b>Monsun® 11</b> | <b>Bestell-Nr.: 51FP207P437L3G</b><br><b>EAN: 4069025280435</b> | <b>LP-Nummer</b><br><b>59060_142</b> |
|-------------------------------------|-----------------------------------------------------------------|--------------------------------------|

**Leuchtdichten in cd/m²**

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

siteco

