

Photometric test report

Family  
Monsun® 11



Order number: 51FP107P4B0U  
EAN: 4069025242495

Version

Lamps

Controlgear

Rated values

prismatic diffuser, opal, PMMA, wide distribution

LED 4000 K | CRI ≥ 80

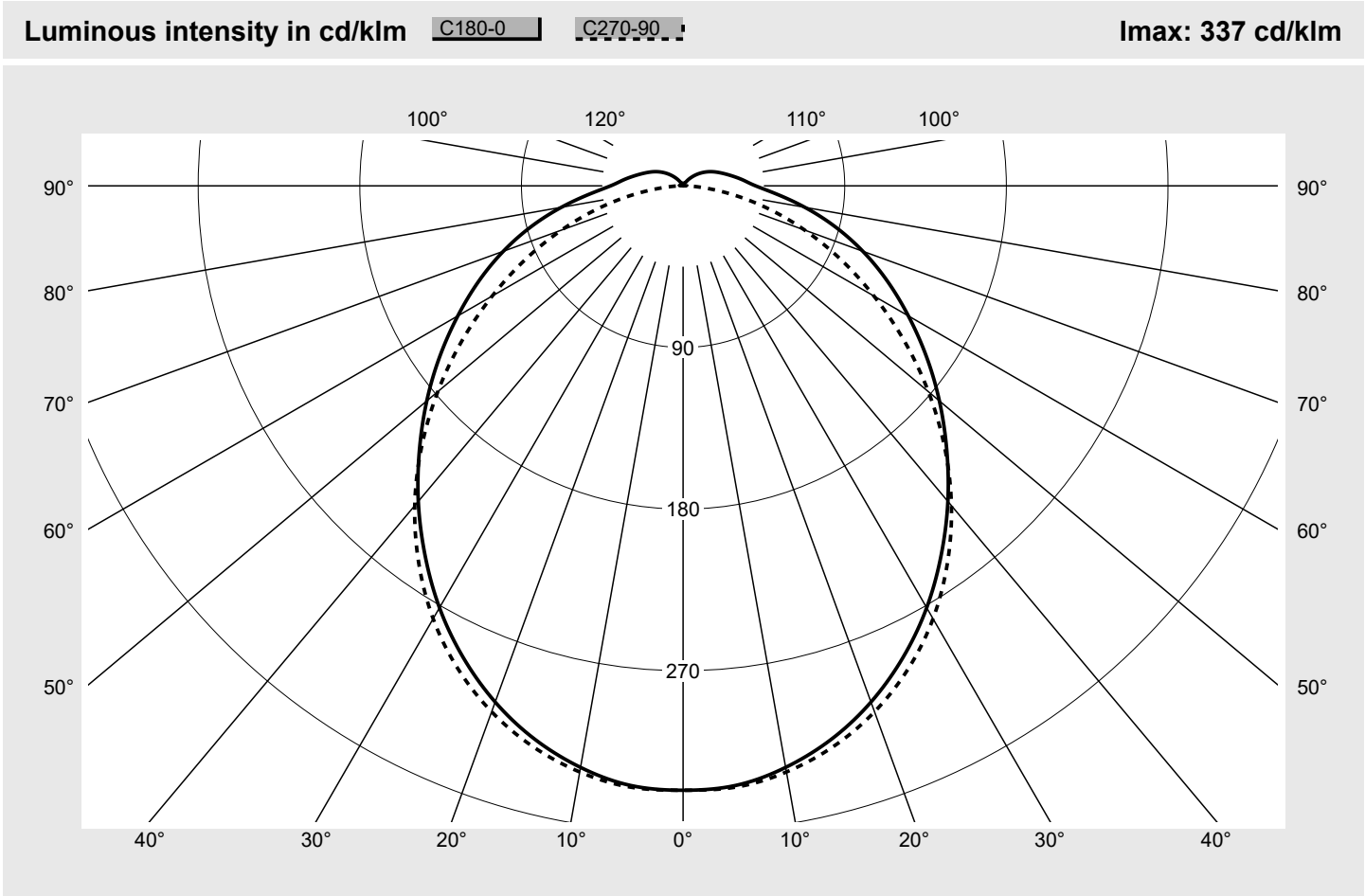
ECG

Net luminous flux = 12070 lm  
Power consumption = 62.4 W  
Luminous efficacy = 193.4 lm/W

LP number  
59015\_6

serial  
documentation  
20.08.2024

siteco



| Classifications |                   | Luminaire light output ratios |        |
|-----------------|-------------------|-------------------------------|--------|
| DIN 5040        | A 4 1             | $\eta_{LB}$                   | 100.0% |
| CIE             | N1=47 N2=76 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: 51FP107P4B0U<br>EAN: 4069025242495 | LP number<br>59015_6       |
| Table of values for luminous intensities |                                                  | Maximum luminous intensity |
|                                          |                                                  | siteco                     |

| C-<br>planes | 0°<br>180°                   | 15°<br>165°<br>195°<br>345° | 30°<br>150°<br>210°<br>330° | 45°<br>135°<br>225°<br>315° | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270° | Phi-zone                | Total<br>Phi-zone |
|--------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|-------------------------|-------------------|
| γ            | Luminous intensity in cd/klm |                             |                             |                             |                             |                             |             | Luminous flux in lm/klm |                   |
| 0°           | 336.6                        | 336.6                       | 336.6                       | 336.6                       | 336.6                       | 336.6                       | 336.6       | 2.0                     | 2.0               |
| 5°           | 335.2                        | 335.1                       | 333.2                       | 334.3                       | 335.7                       | 335.7                       | 336.1       | 16.0                    | 18.0              |
| 10°          | 328.8                        | 330.1                       | 328.0                       | 329.4                       | 330.8                       | 330.9                       | 331.4       | 31.4                    | 49.4              |
| 15°          | 319.0                        | 321.3                       | 319.3                       | 320.8                       | 322.3                       | 322.7                       | 323.3       | 45.6                    | 95.0              |
| 20°          | 305.9                        | 308.9                       | 307.1                       | 308.7                       | 310.4                       | 311.0                       | 311.7       | 58.0                    | 152.9             |
| 25°          | 289.8                        | 293.4                       | 291.5                       | 293.1                       | 295.0                       | 295.9                       | 296.7       | 68.0                    | 221.0             |
| 30°          | 271.3                        | 275.1                       | 273.1                       | 274.3                       | 276.2                       | 277.4                       | 278.4       | 75.4                    | 296.4             |
| 35°          | 250.7                        | 254.3                       | 252.4                       | 252.9                       | 254.4                       | 255.5                       | 256.6       | 79.8                    | 376.2             |
| 40°          | 229.4                        | 232.7                       | 230.3                       | 229.8                       | 230.5                       | 231.3                       | 232.4       | 81.4                    | 457.6             |
| 45°          | 207.6                        | 210.4                       | 207.6                       | 205.2                       | 204.9                       | 204.7                       | 206.0       | 80.1                    | 537.6             |
| 50°          | 186.3                        | 188.5                       | 185.0                       | 181.0                       | 178.9                       | 177.2                       | 178.3       | 76.5                    | 614.1             |
| 55°          | 165.3                        | 166.9                       | 162.7                       | 157.6                       | 153.3                       | 149.9                       | 150.2       | 71.0                    | 685.1             |
| 60°          | 144.9                        | 145.8                       | 140.7                       | 134.7                       | 128.7                       | 123.6                       | 122.7       | 63.9                    | 748.9             |
| 65°          | 125.5                        | 125.6                       | 119.9                       | 112.7                       | 105.4                       | 99.0                        | 96.8        | 55.8                    | 804.7             |
| 70°          | 106.5                        | 105.7                       | 100.0                       | 91.3                        | 83.0                        | 75.5                        | 72.0        | 46.8                    | 851.5             |
| 75°          | 87.5                         | 86.0                        | 80.8                        | 71.2                        | 61.8                        | 53.7                        | 49.1        | 37.2                    | 888.7             |
| 80°          | 68.8                         | 66.9                        | 62.0                        | 52.7                        | 42.3                        | 33.4                        | 27.9        | 27.5                    | 916.2             |
| 85°          | 52.2                         | 50.3                        | 45.3                        | 36.7                        | 26.2                        | 16.7                        | 10.8        | 18.8                    | 935.0             |
| 90°          | 40.4                         | 38.9                        | 34.5                        | 26.5                        | 16.4                        | 7.3                         | 2.2         | 13.2                    | 948.3             |
| 95°          | 34.1                         | 32.8                        | 29.3                        | 22.8                        | 14.2                        | 5.7                         | 1.9         | 11.2                    | 959.5             |
| 100°         | 29.1                         | 28.1                        | 25.5                        | 19.6                        | 11.7                        | 4.0                         | 1.6         | 9.4                     | 968.8             |
| 105°         | 25.0                         | 24.3                        | 21.6                        | 16.3                        | 9.2                         | 2.6                         | 1.4         | 7.7                     | 976.5             |
| 110°         | 21.5                         | 21.0                        | 18.2                        | 13.2                        | 6.8                         | 1.5                         | 1.2         | 6.2                     | 982.7             |
| 115°         | 18.5                         | 17.9                        | 15.1                        | 10.5                        | 4.8                         | 1.3                         | 1.2         | 4.9                     | 987.6             |
| 120°         | 15.6                         | 14.8                        | 12.2                        | 7.9                         | 3.1                         | 1.3                         | 1.1         | 3.8                     | 991.4             |
| 125°         | 12.7                         | 11.9                        | 9.4                         | 5.6                         | 1.7                         | 1.1                         | 1.0         | 2.7                     | 994.1             |
| 130°         | 9.8                          | 9.0                         | 6.8                         | 3.5                         | 1.4                         | 1.1                         | 1.0         | 1.9                     | 996.0             |
| 135°         | 7.0                          | 6.3                         | 4.4                         | 1.9                         | 1.4                         | 1.1                         | 1.0         | 1.2                     | 997.3             |
| 140°         | 4.5                          | 3.9                         | 2.4                         | 1.7                         | 1.3                         | 1.1                         | 1.0         | 0.8                     | 998.1             |
| 145°         | 2.3                          | 2.1                         | 1.9                         | 1.6                         | 1.4                         | 1.2                         | 1.2         | 0.5                     | 998.6             |
| 150°         | 1.9                          | 1.9                         | 1.8                         | 1.5                         | 1.4                         | 1.3                         | 1.2         | 0.4                     | 999.0             |
| 155°         | 1.8                          | 1.7                         | 1.6                         | 1.5                         | 1.4                         | 1.3                         | 1.3         | 0.3                     | 999.3             |
| 160°         | 1.6                          | 1.6                         | 1.5                         | 1.4                         | 1.3                         | 1.3                         | 1.3         | 0.3                     | 999.6             |
| 165°         | 1.4                          | 1.4                         | 1.4                         | 1.3                         | 1.3                         | 1.3                         | 1.3         | 0.2                     | 999.8             |
| 170°         | 1.3                          | 1.3                         | 1.3                         | 1.3                         | 1.3                         | 1.3                         | 1.3         | 0.1                     | 999.9             |
| 175°         | 1.3                          | 1.3                         | 1.3                         | 1.3                         | 1.3                         | 1.3                         | 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            |

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|                              |     |                     |                                                  |      |      |      |                    |      |      |                      |      |
|------------------------------|-----|---------------------|--------------------------------------------------|------|------|------|--------------------|------|------|----------------------|------|
| Family<br>Monsun® 11         |     |                     | Order number: 51FP107P4B0U<br>EAN: 4069025242495 |      |      |      |                    |      |      | LP number<br>59015_6 |      |
| 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  | 22.5                | 24.2                                             | 22.9 | 24.5 | 24.9 | 22.4               | 24.2 | 22.8 | 24.5                 | 24.8 |
|                              | 3H  | 24.3                | 25.8                                             | 24.7 | 26.2 | 26.5 | 23.9               | 25.4 | 24.2 | 25.7                 | 26.1 |
|                              | 4H  | 25.1                | 26.6                                             | 25.5 | 26.9 | 27.3 | 24.4               | 25.9 | 24.8 | 26.2                 | 26.6 |
|                              | 6H  | 25.9                | 27.2                                             | 26.3 | 27.6 | 28.0 | 24.8               | 26.2 | 25.2 | 26.5                 | 26.9 |
|                              | 8H  | 26.2                | 27.5                                             | 26.7 | 27.9 | 28.3 | 24.9               | 26.2 | 25.4 | 26.6                 | 27.0 |
|                              | 12H | 26.6                | 27.7                                             | 27.0 | 28.1 | 28.6 | 25.0               | 26.2 | 25.4 | 26.6                 | 27.0 |
| 4H                           | 2H  | 23.2                | 24.7                                             | 23.6 | 25.0 | 25.4 | 23.2               | 24.6 | 23.6 | 25.0                 | 25.3 |
|                              | 3H  | 25.2                | 26.5                                             | 25.6 | 26.8 | 27.3 | 24.8               | 26.0 | 25.2 | 26.4                 | 26.8 |
|                              | 4H  | 26.2                | 27.3                                             | 26.6 | 27.7 | 28.2 | 25.4               | 26.6 | 25.9 | 27.0                 | 27.4 |
|                              | 6H  | 27.1                | 28.1                                             | 27.5 | 28.5 | 29.0 | 25.9               | 26.9 | 26.4 | 27.4                 | 27.8 |
|                              | 8H  | 27.5                | 28.4                                             | 28.0 | 28.9 | 29.3 | 26.1               | 27.0 | 26.6 | 27.5                 | 27.9 |
|                              | 12H | 27.9                | 28.7                                             | 28.4 | 29.2 | 29.7 | 26.2               | 27.0 | 26.7 | 27.5                 | 28.0 |
| 8H                           | 4H  | 26.5                | 27.4                                             | 27.0 | 27.9 | 28.3 | 25.9               | 26.8 | 26.3 | 27.2                 | 27.7 |
|                              | 6H  | 27.6                | 28.4                                             | 28.1 | 28.8 | 29.3 | 26.5               | 27.3 | 27.0 | 27.8                 | 28.3 |
|                              | 8H  | 28.1                | 28.8                                             | 28.6 | 29.3 | 29.8 | 26.8               | 27.4 | 27.2 | 27.9                 | 28.4 |
|                              | 12H | 28.7                | 29.3                                             | 29.2 | 29.8 | 30.3 | 26.9               | 27.5 | 27.4 | 28.0                 | 28.5 |
| 12H                          | 4H  | 26.6                | 27.4                                             | 27.0 | 27.8 | 28.3 | 26.0               | 26.8 | 26.5 | 27.2                 | 27.7 |
|                              | 6H  | 27.7                | 28.4                                             | 28.2 | 28.9 | 29.4 | 26.7               | 27.4 | 27.2 | 27.8                 | 28.3 |
|                              | 8H  | 28.3                | 28.9                                             | 28.8 | 29.4 | 29.9 | 27.0               | 27.6 | 27.5 | 28.1                 | 28.6 |

|                 |          |                                 |                             |                               |                             |                             |                             |                              |
|-----------------|----------|---------------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|------------------------------|
| 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°<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°                  |
|                 |          |                                 | Luminance in cd/m²          |                               |                             |                             |                             |                              |
| 45°             |          | 20634.5                         | 20993.5                     | 21076.6                       | 21456.8                     | 22330.7                     | 23492.6                     | 25088.1                      |
| 50°             |          | 19640.1                         | 19956.1                     | 19977.8                       | 20229.0                     | 20975.7                     | 22070.5                     | 23828.6                      |
| 55°             |          | 18700.0                         | 18978.3                     | 18918.6                       | 19068.7                     | 19623.1                     | 20586.8                     | 22430.6                      |
| 60°             |          | 17825.4                         | 18050.1                     | 17880.1                       | 17913.7                     | 18283.0                     | 19089.1                     | 20934.9                      |
| 65°             |          | 17073.6                         | 17199.8                     | 16931.5                       | 16786.0                     | 16950.3                     | 17606.0                     | 19429.7                      |
| 70°             |          | 16335.9                         | 16349.3                     | 16014.2                       | 15579.6                     | 15544.0                     | 15964.4                     | 17736.3                      |
| 75°             |          | 15518.1                         | 15406.6                     | 15084.5                       | 14357.5                     | 13958.3                     | 14129.6                     | 15764.5                      |
| 80°             |          | 14601.5                         | 14364.4                     | 14016.5                       | 13112.4                     | 12147.8                     | 11763.8                     | 13060.6                      |
| 85°             |          | 13892.7                         | 13595.5                     | 13078.2                       | 12010.2                     | 10459.6                     | 9014.0                      | 9419.4                       |

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LP number  
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Luminance values in cd/m²

γ 65°

γ 70°

γ 75°

γ 80°

γ 85°

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