

## Photometric test report

Family  
**Monsun® 21**

Order number: **51FB107P437C3G**  
EAN: **4069025177766**

LP number  
**58939\_131**



**Version** prismatic diffuser, opal, PMMA, extremely wide distribution  
**Lamps** LED 4000 K | CRI ≥ 80  
**Controlgear** ECG  
**Rated values** Net luminous flux = 3860 lm  
Power consumption = 25.9 W  
Luminous efficacy = 149 lm/W

serial  
documentation  
**08.05.2024**

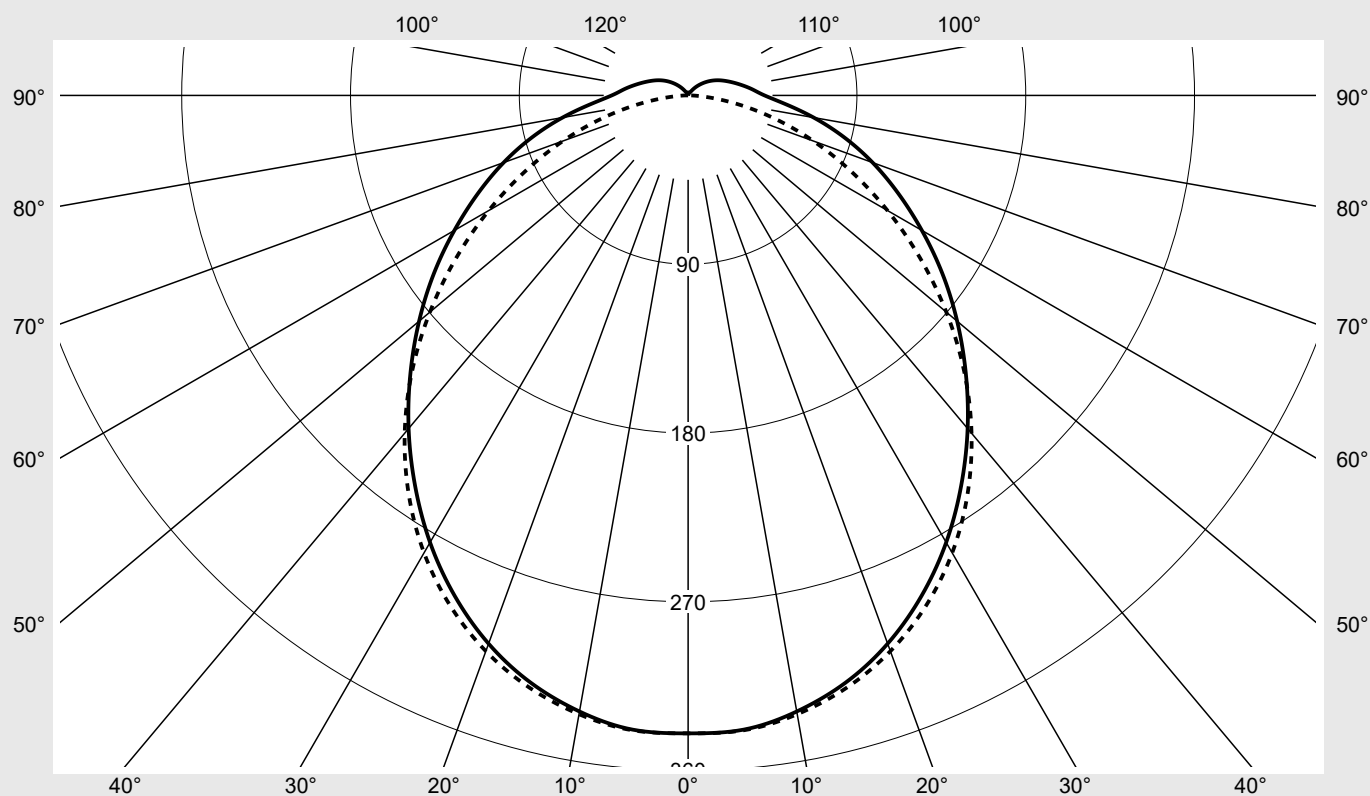
**siteco**

Luminous intensity in cd/klm

**C180-0**

**C270-90**

**Imax: 340 cd/klm**



### Classifications

DIN 5040 A 4 1  
CIE N1=47 N2=77 N3=93  
N4=94 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  94.2%  
 $\phi_o$  5.8%

### Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

|                                          |                                                    |                            |
|------------------------------------------|----------------------------------------------------|----------------------------|
| Family<br>Monsun® 21                     | Order number: 51FB107P437C3G<br>EAN: 4069025177766 | LP number<br>58939_131     |
| 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°           | 340.1                        | 340.1                       | 340.1                       | 340.1                       | 340.1                       | 340.1                       | 340.1       | 2.0                     | 2.0               |
| 5°           | 339.4                        | 338.3                       | 336.5                       | 337.9                       | 339.5                       | 339.4                       | 339.8       | 16.2                    | 18.2              |
| 10°          | 333.5                        | 333.0                       | 331.2                       | 332.8                       | 334.6                       | 334.7                       | 335.0       | 31.7                    | 49.9              |
| 15°          | 324.2                        | 324.2                       | 322.5                       | 324.2                       | 326.1                       | 326.4                       | 326.9       | 46.1                    | 96.0              |
| 20°          | 311.0                        | 311.6                       | 310.1                       | 311.9                       | 314.1                       | 314.7                       | 315.3       | 58.6                    | 154.6             |
| 25°          | 294.4                        | 295.4                       | 294.1                       | 296.0                       | 298.4                       | 299.4                       | 300.2       | 68.7                    | 223.4             |
| 30°          | 275.2                        | 276.6                       | 275.1                       | 276.8                       | 279.4                       | 280.7                       | 281.6       | 76.1                    | 299.5             |
| 35°          | 253.9                        | 255.2                       | 253.8                       | 254.9                       | 257.1                       | 258.4                       | 259.7       | 80.5                    | 380.0             |
| 40°          | 231.8                        | 232.9                       | 231.3                       | 231.1                       | 232.5                       | 233.8                       | 235.1       | 81.9                    | 461.9             |
| 45°          | 209.4                        | 209.9                       | 207.8                       | 205.9                       | 206.1                       | 206.6                       | 208.2       | 80.4                    | 542.4             |
| 50°          | 187.2                        | 187.1                       | 184.8                       | 181.3                       | 179.3                       | 178.3                       | 179.7       | 76.6                    | 619.0             |
| 55°          | 165.5                        | 164.8                       | 162.1                       | 157.0                       | 153.1                       | 150.2                       | 150.9       | 70.7                    | 689.7             |
| 60°          | 143.9                        | 142.9                       | 139.5                       | 133.7                       | 127.9                       | 123.2                       | 122.7       | 63.3                    | 753.0             |
| 65°          | 123.6                        | 122.5                       | 117.8                       | 111.0                       | 104.2                       | 97.9                        | 96.0        | 54.9                    | 808.0             |
| 70°          | 104.7                        | 103.3                       | 97.1                        | 89.4                        | 81.7                        | 74.3                        | 71.0        | 45.8                    | 853.8             |
| 75°          | 86.1                         | 84.4                        | 77.8                        | 69.2                        | 60.2                        | 52.2                        | 47.8        | 36.3                    | 890.0             |
| 80°          | 68.0                         | 66.1                        | 60.2                        | 50.5                        | 40.7                        | 32.1                        | 26.9        | 26.7                    | 916.7             |
| 85°          | 51.8                         | 50.0                        | 44.6                        | 35.3                        | 24.7                        | 15.7                        | 10.1        | 18.3                    | 935.0             |
| 90°          | 40.8                         | 39.2                        | 34.4                        | 26.0                        | 15.9                        | 6.9                         | 1.8         | 13.1                    | 948.2             |
| 95°          | 34.8                         | 33.5                        | 29.7                        | 22.7                        | 13.6                        | 5.1                         | 1.6         | 11.2                    | 959.3             |
| 100°         | 29.9                         | 28.8                        | 25.4                        | 19.2                        | 11.3                        | 3.7                         | 1.4         | 9.4                     | 968.7             |
| 105°         | 25.7                         | 24.7                        | 21.4                        | 16.1                        | 8.8                         | 2.4                         | 1.2         | 7.7                     | 976.4             |
| 110°         | 22.1                         | 20.9                        | 18.0                        | 13.0                        | 6.6                         | 1.4                         | 1.1         | 6.1                     | 982.5             |
| 115°         | 19.0                         | 17.8                        | 15.0                        | 10.4                        | 4.7                         | 1.2                         | 1.1         | 4.9                     | 987.4             |
| 120°         | 16.0                         | 14.8                        | 12.2                        | 7.9                         | 3.1                         | 1.2                         | 1.0         | 3.8                     | 991.2             |
| 125°         | 13.0                         | 11.9                        | 9.4                         | 5.6                         | 1.7                         | 1.1                         | 0.9         | 2.7                     | 993.9             |
| 130°         | 10.1                         | 9.1                         | 6.9                         | 3.7                         | 1.4                         | 1.1                         | 1.0         | 1.9                     | 995.9             |
| 135°         | 7.3                          | 6.5                         | 4.6                         | 2.1                         | 1.4                         | 1.1                         | 1.1         | 1.3                     | 997.1             |
| 140°         | 4.8                          | 4.1                         | 2.7                         | 1.7                         | 1.4                         | 1.1                         | 1.1         | 0.8                     | 998.0             |
| 145°         | 2.6                          | 2.3                         | 1.9                         | 1.7                         | 1.4                         | 1.2                         | 1.2         | 0.5                     | 998.5             |
| 150°         | 2.0                          | 2.0                         | 1.9                         | 1.6                         | 1.3                         | 1.3                         | 1.3         | 0.4                     | 998.9             |
| 155°         | 1.9                          | 1.9                         | 1.7                         | 1.6                         | 1.4                         | 1.4                         | 1.4         | 0.4                     | 999.3             |
| 160°         | 1.7                          | 1.7                         | 1.6                         | 1.4                         | 1.4                         | 1.4                         | 1.4         | 0.3                     | 999.6             |
| 165°         | 1.4                          | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4         | 0.2                     | 999.8             |
| 170°         | 1.3                          | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4         | 0.1                     | 999.9             |
| 175°         | 1.4                          | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4         | 0.1                     | 1000.0            |
| 180°         | 1.4                          | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4                         | 1.4         | 0.0                     | 1000.0            |

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|                      |                                                    |                        |
|----------------------|----------------------------------------------------|------------------------|
| Family<br>Monsun® 21 | Order number: 51FB107P437C3G<br>EAN: 4069025177766 | LP number<br>58939_131 |
|----------------------|----------------------------------------------------|------------------------|

| 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  | 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 |        |  |

| Luminance table |          | Max. for $\gamma \geq 65^\circ$ |                             |                             |                             | Photometric<br>dimensions in mm: | L = 1590<br>B = 87          | H(C0) = 21<br>H(C90) = 21 | H(C180) = 21<br>H(C270) = 21 |
|-----------------|----------|---------------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------------|-----------------------------|---------------------------|------------------------------|
| C-<br>planes    | $\gamma$ | 0°                              | 15°<br>165°<br>195°<br>345° | 30°<br>150°<br>210°<br>330° | 45°<br>135°<br>225°<br>315° | 60°<br>120°<br>240°<br>300°      | 75°<br>105°<br>255°<br>285° | 90°<br>270°               |                              |
|                 |          | Luminance in cd/m²              |                             |                             |                             |                                  |                             |                           |                              |
|                 | 45°      | 6655.8                          | 6697.0                      | 6746.0                      | 6887.0                      | 7184.3                           | 7582.2                      | 8108.2                    |                              |
|                 | 50°      | 6312.5                          | 6335.9                      | 6383.3                      | 6480.7                      | 6725.8                           | 7103.6                      | 7680.0                    |                              |
|                 | 55°      | 5985.8                          | 5992.8                      | 6029.5                      | 6077.0                      | 6266.4                           | 6596.6                      | 7204.0                    |                              |
|                 | 60°      | 5662.9                          | 5658.1                      | 5668.0                      | 5686.0                      | 5810.8                           | 6083.5                      | 6696.1                    |                              |
|                 | 65°      | 5379.0                          | 5366.1                      | 5320.7                      | 5286.9                      | 5361.2                           | 5566.4                      | 6164.3                    |                              |
|                 | 70°      | 5135.3                          | 5106.3                      | 4973.8                      | 4879.8                      | 4888.5                           | 5021.7                      | 5592.9                    |                              |
|                 | 75°      | 4881.1                          | 4835.0                      | 4649.5                      | 4461.0                      | 4350.3                           | 4395.2                      | 4913.6                    |                              |
|                 | 80°      | 4611.8                          | 4535.2                      | 4349.3                      | 4014.1                      | 3734.5                           | 3610.2                      | 4018.2                    |                              |
|                 | 85°      | 4415.2                          | 4321.8                      | 4119.7                      | 3699.3                      | 3144.5                           | 2694.4                      | 2806.2                    |                              |

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|                                                                                                                                    |                                                                  |                                      |  |
|------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------|--|
| <b>Family</b><br><b>Monsun® 21</b>                                                                                                 | <b>Order number: 51FB107P437C3G</b><br><b>EAN: 4069025177766</b> | <b>LP number</b><br><b>58939_131</b> |  |
| <b>Luminance values 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> |                                                                  |                                      |  |

