

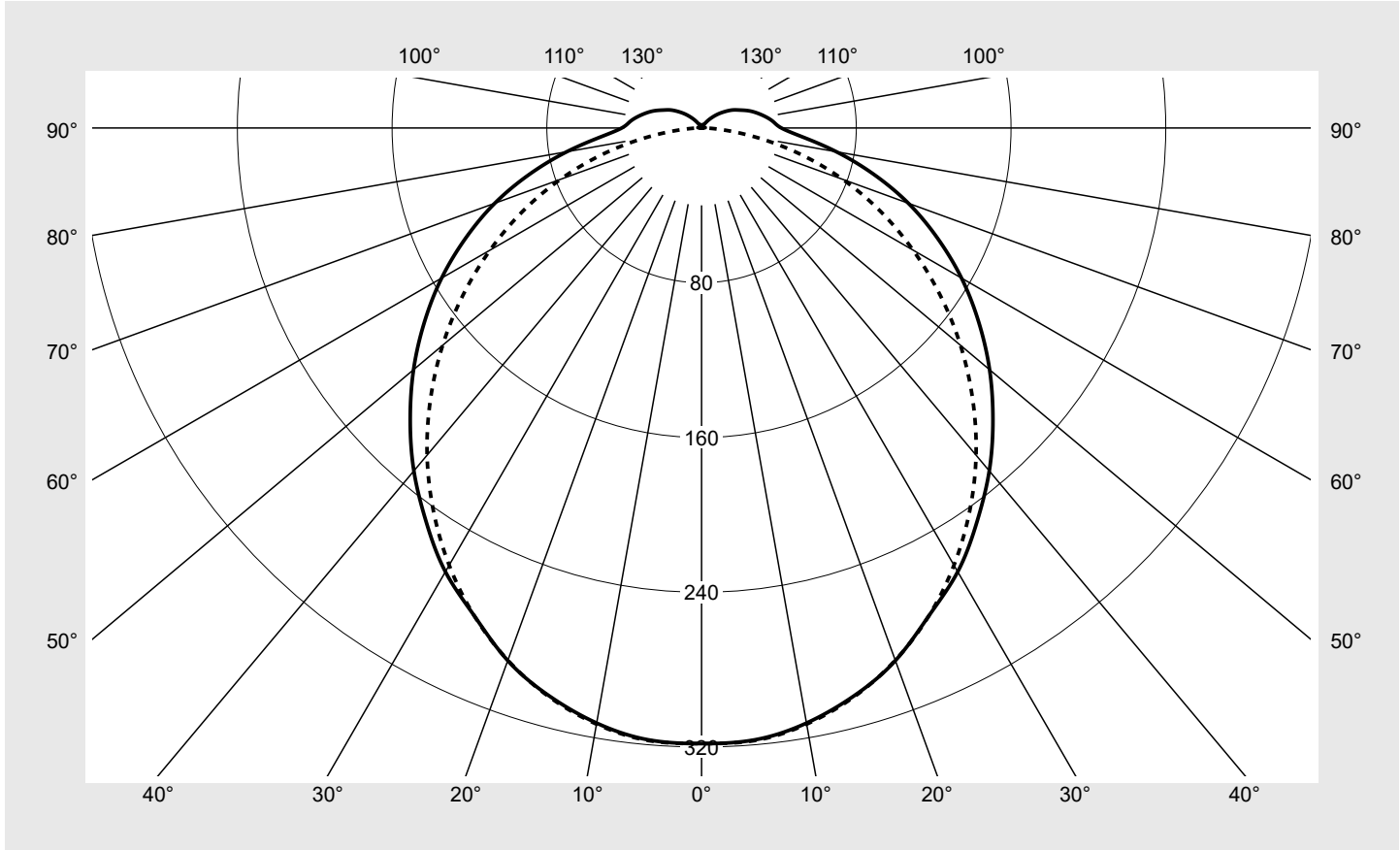


Photometric test report

| | | |
|--|--|---|
| Family Monsun® 21 | Order number: 51FB20ML460K EAN: 4069025131768 | LP number 59394_26 |
|  | Version prismatic diffuser, opal, polycarbonate, extremely wide distribution | serial documentation 08.05.2024 |
| | Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Multilumen Rated values Net luminous flux = 6030 lm Power consumption = 37.0 W Luminous efficacy = 163 lm/W | |
| | |  |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 318 cd/klm**



| Classifications | |
|-----------------|-----------------------------------|
| DIN 5040 | A 4 1 |
| CIE | N1=45 N2=75 N3=93 N4=94 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 93.7% |
| ϕ_o | 6.3% |

Measurement conditions
 DIN EN 13032 and DIN 5032

Photometric test report

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|---|--|-------------------------------------|
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| Table of values for luminous intensities | | Maximum luminous intensity |
| | | siteco |

| C-planes γ | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° | Phi-zone | Total Phi-zone |
|------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|----------|-------------------|
| | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | | | |
| Luminous intensity in cd/klm | | | | | | | Luminous flux in lm/klm | | |
| 0° | 318.2 | 318.2 | 318.2 | 318.2 | 318.2 | 318.2 | 318.2 | 1.9 | 1.9 |
| 5° | 317.5 | 317.5 | 315.1 | 315.9 | 316.6 | 317.2 | 317.8 | 15.1 | 17.0 |
| 10° | 312.4 | 312.6 | 310.3 | 310.8 | 311.5 | 312.2 | 312.9 | 29.7 | 46.7 |
| 15° | 304.0 | 304.5 | 302.1 | 302.5 | 303.1 | 303.6 | 304.5 | 43.0 | 89.7 |
| 20° | 293.0 | 293.3 | 291.0 | 291.0 | 291.4 | 291.9 | 292.8 | 54.7 | 144.5 |
| 25° | 278.2 | 280.0 | 277.5 | 276.9 | 276.9 | 277.3 | 278.2 | 64.3 | 208.8 |
| 30° | 264.9 | 265.0 | 262.4 | 260.7 | 260.0 | 260.0 | 261.0 | 71.8 | 280.6 |
| 35° | 248.3 | 248.5 | 245.7 | 243.1 | 241.2 | 240.6 | 241.7 | 76.7 | 357.3 |
| 40° | 231.4 | 230.9 | 227.8 | 224.4 | 221.2 | 219.7 | 220.8 | 79.3 | 436.6 |
| 45° | 213.0 | 212.5 | 208.9 | 204.3 | 200.0 | 197.3 | 198.2 | 79.4 | 515.9 |
| 50° | 194.4 | 193.4 | 189.5 | 184.3 | 178.4 | 174.4 | 174.7 | 77.3 | 593.2 |
| 55° | 174.9 | 174.0 | 169.9 | 163.6 | 156.5 | 151.3 | 150.6 | 73.2 | 666.4 |
| 60° | 155.2 | 153.6 | 149.3 | 142.2 | 134.7 | 128.1 | 126.2 | 67.1 | 733.5 |
| 65° | 134.5 | 133.3 | 127.9 | 120.6 | 112.6 | 105.3 | 102.1 | 59.5 | 793.0 |
| 70° | 113.8 | 111.2 | 106.2 | 98.6 | 90.1 | 81.8 | 77.7 | 50.1 | 843.1 |
| 75° | 91.9 | 90.6 | 84.2 | 76.2 | 67.3 | 58.7 | 53.5 | 39.7 | 882.8 |
| 80° | 70.8 | 68.8 | 62.9 | 54.4 | 45.2 | 36.1 | 30.1 | 28.6 | 911.4 |
| 85° | 52.2 | 50.3 | 44.7 | 36.3 | 26.8 | 17.6 | 11.2 | 18.9 | 930.2 |
| 90° | 41.3 | 39.2 | 33.7 | 25.7 | 16.7 | 7.7 | 2.0 | 13.2 | 943.5 |
| 95° | 37.2 | 35.5 | 30.5 | 23.1 | 14.2 | 5.7 | 1.8 | 11.7 | 955.1 |
| 100° | 33.6 | 31.9 | 27.2 | 20.0 | 11.9 | 4.1 | 1.6 | 10.1 | 965.3 |
| 105° | 29.8 | 28.2 | 23.6 | 17.2 | 9.5 | 2.6 | 1.4 | 8.5 | 973.8 |
| 110° | 26.0 | 24.2 | 20.2 | 14.2 | 7.2 | 1.5 | 1.2 | 7.0 | 980.8 |
| 115° | 21.9 | 20.5 | 16.9 | 11.4 | 5.1 | 1.4 | 1.2 | 5.5 | 986.3 |
| 120° | 18.6 | 17.0 | 13.7 | 8.7 | 3.2 | 1.3 | 1.1 | 4.3 | 990.6 |
| 125° | 14.8 | 13.4 | 10.4 | 6.0 | 1.7 | 1.3 | 1.1 | 3.1 | 993.6 |
| 130° | 11.3 | 10.0 | 7.4 | 3.7 | 1.5 | 1.3 | 1.1 | 2.1 | 995.7 |
| 135° | 7.8 | 6.8 | 4.7 | 1.9 | 1.5 | 1.3 | 1.0 | 1.3 | 997.1 |
| 140° | 4.8 | 4.0 | 2.4 | 1.7 | 1.5 | 1.2 | 1.0 | 0.8 | 997.9 |
| 145° | 2.3 | 2.1 | 1.9 | 1.7 | 1.5 | 1.3 | 1.2 | 0.5 | 998.4 |
| 150° | 2.0 | 2.0 | 1.9 | 1.7 | 1.5 | 1.4 | 1.3 | 0.5 | 998.9 |
| 155° | 1.9 | 1.9 | 1.8 | 1.7 | 1.5 | 1.4 | 1.3 | 0.4 | 999.3 |
| 160° | 1.8 | 1.8 | 1.8 | 1.6 | 1.5 | 1.5 | 1.4 | 0.3 | 999.6 |
| 165° | 1.7 | 1.7 | 1.6 | 1.5 | 1.5 | 1.5 | 1.4 | 0.2 | 999.8 |
| 170° | 1.5 | 1.6 | 1.5 | 1.5 | 1.5 | 1.5 | 1.4 | 0.1 | 999.9 |
| 175° | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 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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| 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 | 21.1 | 22.8 | 21.4 | 23.1 | 23.4 | 20.8 | 22.5 | 21.2 | 22.8 | 23.2 |
| | 3H | 22.9 | 24.5 | 23.3 | 24.8 | 25.2 | 22.4 | 23.9 | 22.7 | 24.3 | 24.6 |
| | 4H | 23.8 | 25.2 | 24.1 | 25.6 | 25.9 | 23.0 | 24.5 | 23.4 | 24.8 | 25.2 |
| | 6H | 24.5 | 25.9 | 24.9 | 26.2 | 26.6 | 23.4 | 24.8 | 23.8 | 25.1 | 25.5 |
| | 8H | 24.8 | 26.1 | 25.3 | 26.5 | 26.9 | 23.5 | 24.8 | 23.9 | 25.2 | 25.6 |
| | 12H | 25.1 | 26.3 | 25.5 | 26.7 | 27.1 | 23.6 | 24.8 | 24.0 | 25.2 | 25.6 |
| 4H | 2H | 21.8 | 23.3 | 22.2 | 23.7 | 24.0 | 21.6 | 23.1 | 22.0 | 23.4 | 23.8 |
| | 3H | 23.8 | 25.1 | 24.3 | 25.5 | 25.9 | 23.4 | 24.6 | 23.8 | 25.0 | 25.4 |
| | 4H | 24.8 | 26.0 | 25.3 | 26.4 | 26.8 | 24.1 | 25.2 | 24.5 | 25.6 | 26.1 |
| | 6H | 25.7 | 26.7 | 26.2 | 27.1 | 27.6 | 24.6 | 25.6 | 25.1 | 26.1 | 26.5 |
| | 8H | 26.1 | 27.0 | 26.6 | 27.5 | 27.9 | 24.8 | 25.7 | 25.2 | 26.2 | 26.6 |
| | 12H | 26.5 | 27.3 | 27.0 | 27.8 | 28.2 | 24.9 | 25.7 | 25.4 | 26.2 | 26.7 |
| 8H | 4H | 25.2 | 26.1 | 25.6 | 26.5 | 27.0 | 24.5 | 25.5 | 25.0 | 25.9 | 26.4 |
| | 6H | 26.2 | 27.0 | 26.7 | 27.5 | 28.0 | 25.2 | 26.0 | 25.7 | 26.4 | 26.9 |
| | 8H | 26.7 | 27.4 | 27.2 | 27.9 | 28.4 | 25.4 | 26.1 | 25.9 | 26.6 | 27.1 |
| | 12H | 27.2 | 27.8 | 27.7 | 28.3 | 28.8 | 25.6 | 26.2 | 26.1 | 26.7 | 27.2 |
| 12H | 4H | 25.2 | 26.1 | 25.7 | 26.5 | 27.0 | 24.6 | 25.4 | 25.1 | 25.9 | 26.4 |
| | 6H | 26.3 | 27.0 | 26.8 | 27.5 | 28.0 | 25.4 | 26.0 | 25.8 | 26.5 | 27.0 |
| | 8H | 26.8 | 27.5 | 27.3 | 27.9 | 28.5 | 25.6 | 26.2 | 26.1 | 26.7 | 27.3 |

| | | | | | |
|------------------------|---|--------------------------------------|-----------------|--------------------|---------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1299 | H(C0) = 21 | H(C180) = 21 |
| | | | B = 87 | H(C90) = 21 | H(C270) = 21 |

| C-planes | γ | Luminance in cd/m ² | | | | | | | |
|----------|----------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|
| | | 0° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° | |
| | 45° | 12950.0 | 12959.0 | 12948.6 | 13041.8 | 13299.6 | 13806.8 | 14719.1 | |
| | 50° | 12531.6 | 12510.9 | 12495.4 | 12567.1 | 12759.4 | 13242.8 | 14231.3 | |
| | 55° | 12101.1 | 12086.9 | 12062.7 | 12077.9 | 12206.8 | 12660.6 | 13688.8 | |
| | 60° | 11678.3 | 11619.3 | 11574.6 | 11532.2 | 11653.2 | 12038.7 | 13104.0 | |
| | 65° | 11189.4 | 11153.9 | 11021.9 | 10950.5 | 11031.7 | 11384.3 | 12464.2 | |
| | 70° | 10671.7 | 10504.6 | 10378.5 | 10255.0 | 10256.6 | 10510.7 | 11605.3 | |
| | 75° | 9967.4 | 9906.4 | 9590.0 | 9353.4 | 9227.0 | 9371.2 | 10397.6 | |
| | 80° | 9178.5 | 9004.9 | 8659.0 | 8219.8 | 7876.5 | 7694.6 | 8474.9 | |
| | 85° | 8494.9 | 8295.4 | 7851.1 | 7213.4 | 6453.9 | 5679.3 | 5781.6 | |

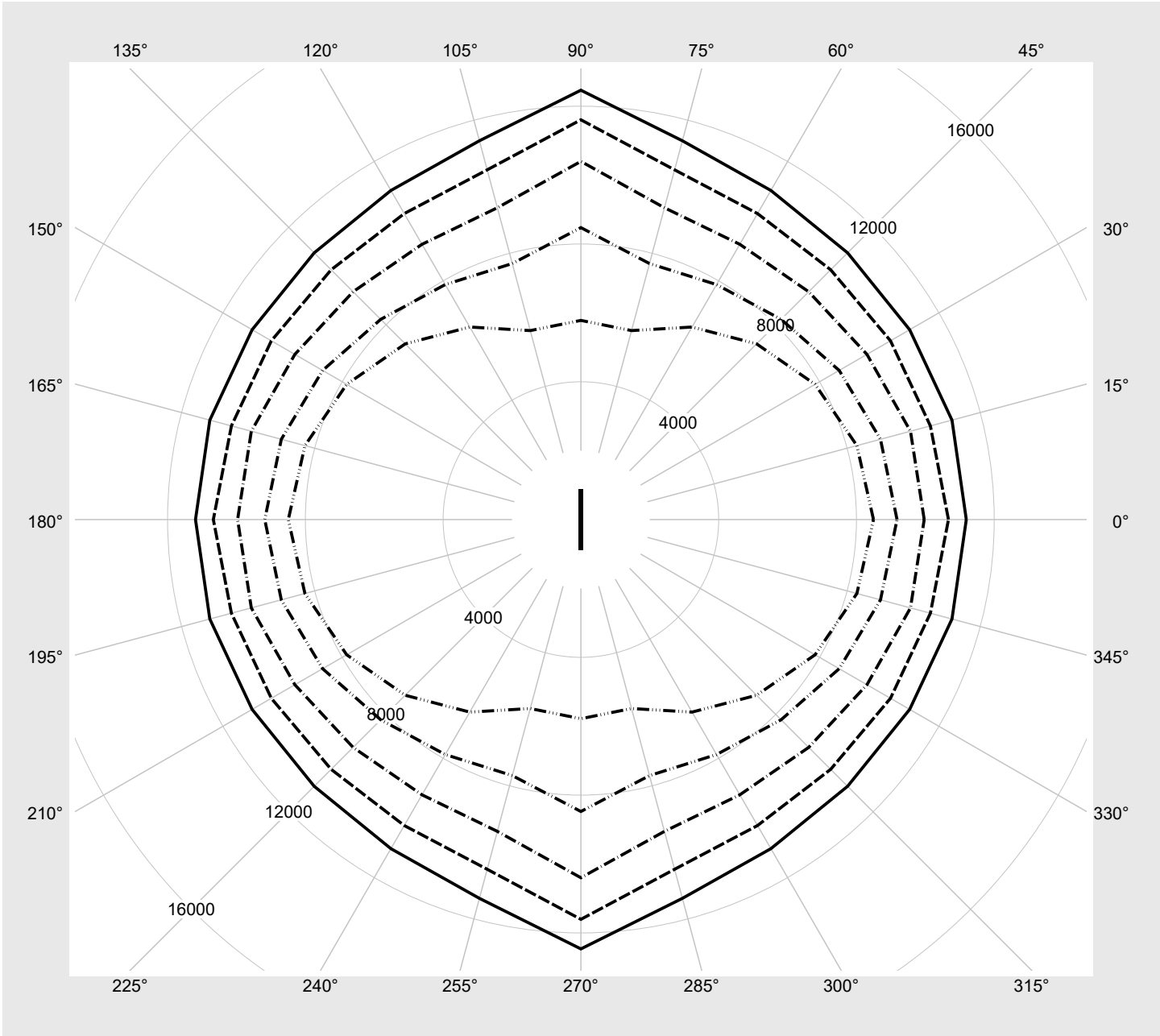
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Luminance values in cd/m²

γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

siteco



Photometric test report

Family
Monsun® 21

Order number: 51FB20ML460K
EAN: 4069025131768

LP number
59394_26

Multilumen Table

environmental temperature: 25°C

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| DIP-Step | Switch Setting | | | Luminous flux [lm] | Power consumption [W] |
|----------|----------------|---|---|-----------------------|--------------------------|
| | 1 | 2 | 3 | | |
| 1 | A | C | E | 6030 | 37.0 |
| 2 | A | C | F | 5699 | 34.9 |
| 3 | A | D | E | 5430 | 33.2 |
| 4 | A | D | F | 5037 | 30.7 |
| 5 | B | C | E | 4623 | 28.2 |
| 6 | B | C | F | 4427 | 26.9 |
| 7 | B | D | E | 4086 | 24.8 |
| 8 | B | D | F | 3868 | 23.7 |