



Photometric test report

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| Family Monsun® 21 | Order number: 51FB107P487B3G EAN: 4058352519899 | LP number 58939_55 |
|  | Version prismatic diffuser, opal, PMMA, wide distribution Lamps LED 4000 K CRI ≥ 80 Controlgear ECG Setting emergency light operation: 3 h Rated values Net luminous flux = 840 lm Power consumption = 4.5 W Luminous efficacy = 186.7 lm/W | serial documentation 01.07.2021 |
| |  | |

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 | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 94.2% |
| ϕ_o | 5.8% |

| Measurement conditions |
|---------------------------|
| DIN EN 13032 and DIN 5032 |

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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° | 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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| UGR-Table | Standard room | siteco |
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| | | | | | | | | | | | |
|------------------------------|---------------------|------|------|------|------|--------------------|------|------|------|------|------|
| 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 | 13.2 | 14.9 | 13.6 | 15.2 | 15.5 | 13.2 | 14.9 | 13.6 | 15.2 | 15.5 |
| | 3H | 15.0 | 16.5 | 15.3 | 16.8 | 17.2 | 14.6 | 16.1 | 15.0 | 16.5 | 16.8 |
| | 4H | 15.8 | 17.2 | 16.2 | 17.6 | 17.9 | 15.1 | 16.6 | 15.5 | 16.9 | 17.3 |
| | 6H | 16.5 | 17.9 | 16.9 | 18.2 | 18.6 | 15.5 | 16.8 | 15.9 | 17.2 | 17.6 |
| | 8H | 16.9 | 18.1 | 17.3 | 18.5 | 18.9 | 15.6 | 16.9 | 16.0 | 17.2 | 17.7 |
| | 12H | 17.2 | 18.4 | 17.6 | 18.8 | 19.2 | 15.6 | 16.9 | 16.1 | 17.2 | 17.7 |
| 4H | 2H | 13.9 | 15.4 | 14.3 | 15.7 | 16.1 | 13.9 | 15.3 | 14.3 | 15.7 | 16.1 |
| | 3H | 15.8 | 17.1 | 16.3 | 17.5 | 17.9 | 15.5 | 16.7 | 15.9 | 17.1 | 17.5 |
| | 4H | 16.8 | 17.9 | 17.2 | 18.3 | 18.8 | 16.1 | 17.3 | 16.6 | 17.7 | 18.1 |
| | 6H | 17.7 | 18.7 | 18.2 | 19.1 | 19.6 | 16.6 | 17.6 | 17.0 | 18.0 | 18.5 |
| | 8H | 18.1 | 19.1 | 18.6 | 19.5 | 20.0 | 16.7 | 17.7 | 17.2 | 18.1 | 18.6 |
| | 12H | 18.6 | 19.4 | 19.0 | 19.8 | 20.3 | 16.8 | 17.7 | 17.3 | 18.1 | 18.6 |
| 8H | 4H | 17.1 | 18.1 | 17.6 | 18.5 | 19.0 | 16.5 | 17.4 | 17.0 | 17.9 | 18.3 |
| | 6H | 18.2 | 19.0 | 18.7 | 19.5 | 19.9 | 17.1 | 17.9 | 17.6 | 18.4 | 18.9 |
| | 8H | 18.8 | 19.4 | 19.2 | 19.9 | 20.4 | 17.4 | 18.0 | 17.9 | 18.5 | 19.0 |
| | 12H | 19.3 | 19.9 | 19.8 | 20.4 | 20.9 | 17.5 | 18.1 | 18.0 | 18.6 | 19.1 |
| 12H | 4H | 17.2 | 18.0 | 17.7 | 18.5 | 18.9 | 16.6 | 17.4 | 17.1 | 17.9 | 18.4 |
| | 6H | 18.3 | 19.0 | 18.8 | 19.5 | 20.0 | 17.3 | 18.0 | 17.8 | 18.4 | 19.0 |
| | 8H | 18.9 | 19.5 | 19.4 | 20.0 | 20.5 | 17.6 | 18.2 | 18.1 | 18.6 | 19.2 |

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|------------------------|---|--------------------------------------|-----------------|--------------------|---------------------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | L = 1590 | H(C0) = 21 | H(C180) = 21 |
| | | | B = 87 | H(C90) = 21 | H(C270) = 21 |

| C-planes | γ | Luminance in cd/m ² | | | | | | | | |
|----------|----------|--------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|--|--|
| | | 0° 180° | 15° 165° 195° 345° | 30° 150° 210° 330° | 45° 135° 225° 315° | 60° 120° 240° 300° | 75° 105° 255° 285° | 90° 270° | | |
| 45° | | 1448.4 | 1457.4 | 1468.0 | 1498.7 | 1563.4 | 1650.0 | 1764.5 | | |
| 50° | | 1373.7 | 1378.8 | 1389.1 | 1410.3 | 1463.6 | 1545.9 | 1671.3 | | |
| 55° | | 1302.6 | 1304.1 | 1312.1 | 1322.5 | 1363.7 | 1435.5 | 1567.7 | | |
| 60° | | 1232.3 | 1231.3 | 1233.4 | 1237.4 | 1264.5 | 1323.9 | 1457.2 | | |
| 65° | | 1170.6 | 1167.7 | 1157.9 | 1150.5 | 1166.7 | 1211.3 | 1341.4 | | |
| 70° | | 1117.5 | 1111.2 | 1082.4 | 1061.9 | 1063.8 | 1092.8 | 1217.1 | | |
| 75° | | 1062.2 | 1052.2 | 1011.8 | 970.8 | 946.7 | 956.5 | 1069.3 | | |
| 80° | | 1003.6 | 986.9 | 946.5 | 873.5 | 812.7 | 785.6 | 874.4 | | |
| 85° | | 960.8 | 940.5 | 896.5 | 805.0 | 684.3 | 586.3 | 610.7 | | |

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**

