
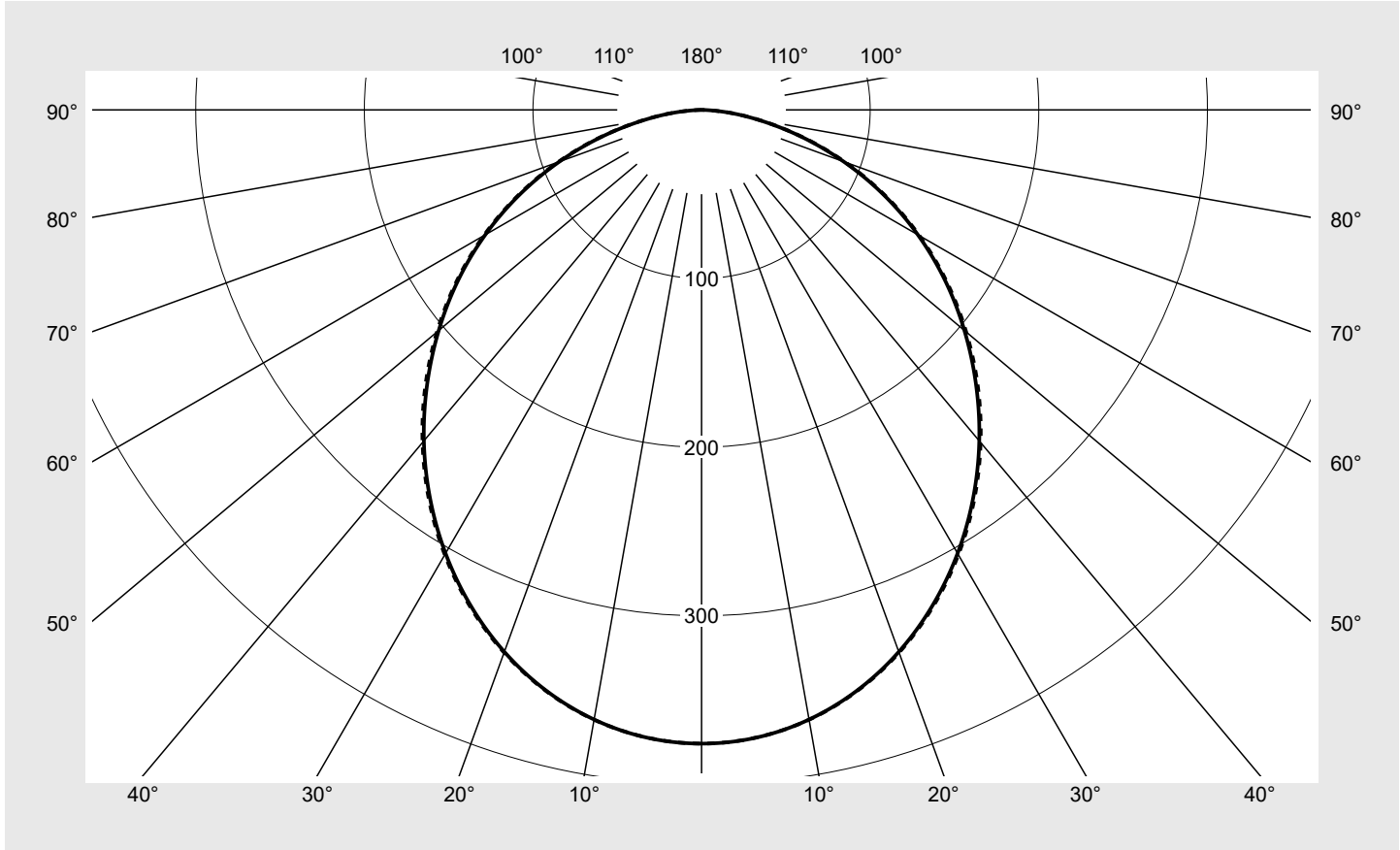


Photometric test report

| | | |
|--|--|---|
| Family Round 21 M | Order number: 51MR36FM8321B EAN: 4058352829899 | LP number 59512_23 |
|  | Version surface-mounted and suspended luminaire, cover, opal, PMMA, extremely wide distribution, direct distribution, aluminium housing, black | serial documentation 22.01.2026 |
| | Lamps LED 3000 K CRI ≥ 80 | Controlgear ECG Multilumen |
| Rated values | Net luminous flux = 8540 lm Power consumption = 62.6 W Luminous efficacy = 136.4 lm/W | |

Luminous intensity in cd/klm C180-0 C270-90 **Imax: 376 cd/klm**



| Classifications | |
|-----------------|------------------------------------|
| DIN 5040 | A 4 0 |
| CIE | N1=49 N2=80 N3=96 N4=100 N5=100 |

| Luminaire light output ratios | |
|-------------------------------|--------|
| η_{LB} | 100.0% |
| ϕ_u | 100.0% |
| ϕ_o | 0.0% |

Measurement conditions
 DIN EN 13032 and DIN 5032

Photometric test report

| | | |
|----------------------|---|-----------------------|
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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° | 375.8 | 375.8 | 375.8 | 375.8 | 375.8 | 375.8 | 375.8 | 2.2 | 2.2 |
| 5° | 373.6 | 373.6 | 373.6 | 373.6 | 373.7 | 373.6 | 373.6 | 17.8 | 20.1 |
| 10° | 367.1 | 367.0 | 367.1 | 367.1 | 367.2 | 367.1 | 367.2 | 34.9 | 55.0 |
| 15° | 356.4 | 356.5 | 356.5 | 356.7 | 356.7 | 356.7 | 356.7 | 50.6 | 105.6 |
| 20° | 342.0 | 342.1 | 342.1 | 342.4 | 342.4 | 342.5 | 342.5 | 64.2 | 169.8 |
| 25° | 324.2 | 324.6 | 324.4 | 324.9 | 324.8 | 325.3 | 324.9 | 75.2 | 245.0 |
| 30° | 303.7 | 304.3 | 303.9 | 304.6 | 304.5 | 305.2 | 304.6 | 83.4 | 328.5 |
| 35° | 280.8 | 281.7 | 281.1 | 282.4 | 281.8 | 282.9 | 282.0 | 88.6 | 417.1 |
| 40° | 256.2 | 257.4 | 256.5 | 258.0 | 257.2 | 258.5 | 257.4 | 90.7 | 507.8 |
| 45° | 230.2 | 231.7 | 230.5 | 232.2 | 231.4 | 232.8 | 231.7 | 89.8 | 597.5 |
| 50° | 203.5 | 204.9 | 203.8 | 205.4 | 204.7 | 206.0 | 204.9 | 86.0 | 683.6 |
| 55° | 176.3 | 177.6 | 175.5 | 178.1 | 177.3 | 178.7 | 177.4 | 79.6 | 763.2 |
| 60° | 148.1 | 149.5 | 147.4 | 150.0 | 149.0 | 150.6 | 149.2 | 70.8 | 834.0 |
| 65° | 119.2 | 120.8 | 118.4 | 121.2 | 120.0 | 121.6 | 120.1 | 59.7 | 893.7 |
| 70° | 89.7 | 91.5 | 88.8 | 91.9 | 90.4 | 92.3 | 90.6 | 46.8 | 940.5 |
| 75° | 60.9 | 62.5 | 60.0 | 63.4 | 61.5 | 63.0 | 61.6 | 32.8 | 973.3 |
| 80° | 34.5 | 35.9 | 33.5 | 36.8 | 35.0 | 36.0 | 35.0 | 19.1 | 992.4 |
| 85° | 13.2 | 14.6 | 12.4 | 14.8 | 13.6 | 14.5 | 13.7 | 7.6 | 1000.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | 20.2 | 21.9 | 20.5 | 22.2 | 22.5 | 20.2 | 21.9 | 20.6 | 22.2 | 22.5 |
| | 3H | 21.7 | 23.3 | 22.1 | 23.6 | 23.9 | 21.8 | 23.3 | 22.2 | 23.6 | 24.0 |
| | 4H | 22.3 | 23.8 | 22.7 | 24.1 | 24.5 | 22.4 | 23.8 | 22.8 | 24.2 | 24.5 |
| | 6H | 22.8 | 24.1 | 23.2 | 24.4 | 24.8 | 22.8 | 24.1 | 23.2 | 24.5 | 24.9 |
| | 8H | 22.9 | 24.1 | 23.3 | 24.5 | 24.9 | 23.0 | 24.2 | 23.4 | 24.6 | 25.0 |
| | 12H | 23.0 | 24.2 | 23.4 | 24.5 | 25.0 | 23.1 | 24.2 | 23.5 | 24.6 | 25.0 |
| 4H | 2H | 20.9 | 22.3 | 21.3 | 22.7 | 23.1 | 21.0 | 22.4 | 21.4 | 22.7 | 23.1 |
| | 3H | 22.7 | 23.9 | 23.1 | 24.2 | 24.7 | 22.7 | 23.9 | 23.1 | 24.3 | 24.7 |
| | 4H | 23.4 | 24.4 | 23.8 | 24.9 | 25.3 | 23.4 | 24.5 | 23.9 | 24.9 | 25.3 |
| | 6H | 23.9 | 24.8 | 24.3 | 25.3 | 25.7 | 23.9 | 24.9 | 24.4 | 25.3 | 25.8 |
| | 8H | 24.1 | 24.9 | 24.5 | 25.4 | 25.8 | 24.1 | 25.0 | 24.6 | 25.4 | 25.9 |
| | 12H | 24.2 | 25.0 | 24.7 | 25.4 | 25.9 | 24.3 | 25.0 | 24.7 | 25.5 | 26.0 |
| 8H | 4H | 23.7 | 24.5 | 24.2 | 25.0 | 25.5 | 23.7 | 24.6 | 24.2 | 25.0 | 25.5 |
| | 6H | 24.3 | 25.0 | 24.8 | 25.5 | 26.0 | 24.4 | 25.1 | 24.9 | 25.6 | 26.1 |
| | 8H | 24.5 | 25.2 | 25.0 | 25.7 | 26.2 | 24.6 | 25.2 | 25.1 | 25.7 | 26.2 |
| | 12H | 24.7 | 25.2 | 25.2 | 25.7 | 26.3 | 24.8 | 25.3 | 25.3 | 25.8 | 26.3 |
| 12H | 4H | 23.7 | 24.5 | 24.2 | 25.0 | 25.4 | 23.8 | 24.5 | 24.3 | 25.0 | 25.5 |
| | 6H | 24.4 | 25.0 | 24.9 | 25.5 | 26.0 | 24.5 | 25.1 | 25.0 | 25.5 | 26.1 |
| | 8H | 24.6 | 25.2 | 25.2 | 25.7 | 26.2 | 24.7 | 25.2 | 25.2 | 25.7 | 26.3 |

| | | | | | | | | |
|-----------------|---------------------------------|---------------------------------------|--|--|--|--|--|--|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: D = 590 | | | | | | |
|-----------------|---------------------------------|---------------------------------------|--|--|--|--|--|--|

| | | | | | | | | |
|--------------------|----------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|
| C-planes | γ | 0° 180° | 15° | 30° | 45° | 60° | 75° | 90° 270° |
| | | | 165° 195° 345° | 150° 210° 330° | 135° 225° 315° | 120° 240° 300° | 105° 255° 285° | |
| Luminance in cd/m² | | | | | | | | |
| 45° | | 10168.4 | 10237.2 | 10183.5 | 10257.1 | 10221.5 | 10282.6 | 10235.7 |
| 50° | | 9888.6 | 9958.9 | 9904.5 | 9981.9 | 9945.6 | 10012.2 | 9955.0 |
| 55° | | 9600.2 | 9673.1 | 9559.6 | 9699.6 | 9653.4 | 9731.3 | 9662.9 |
| 60° | | 9254.1 | 9342.2 | 9205.6 | 9372.9 | 9309.1 | 9407.3 | 9320.1 |
| 65° | | 8810.0 | 8925.6 | 8747.6 | 8954.9 | 8866.2 | 8987.8 | 8878.4 |
| 70° | | 8194.7 | 8360.9 | 8113.0 | 8391.9 | 8257.9 | 8426.2 | 8271.5 |
| 75° | | 7355.6 | 7545.4 | 7243.3 | 7656.9 | 7427.0 | 7605.2 | 7436.6 |
| 80° | | 6205.3 | 6449.4 | 6027.9 | 6620.1 | 6287.3 | 6476.4 | 6301.7 |
| 85° | | 4737.3 | 5236.2 | 4448.5 | 5295.4 | 4880.7 | 5212.9 | 4912.9 |

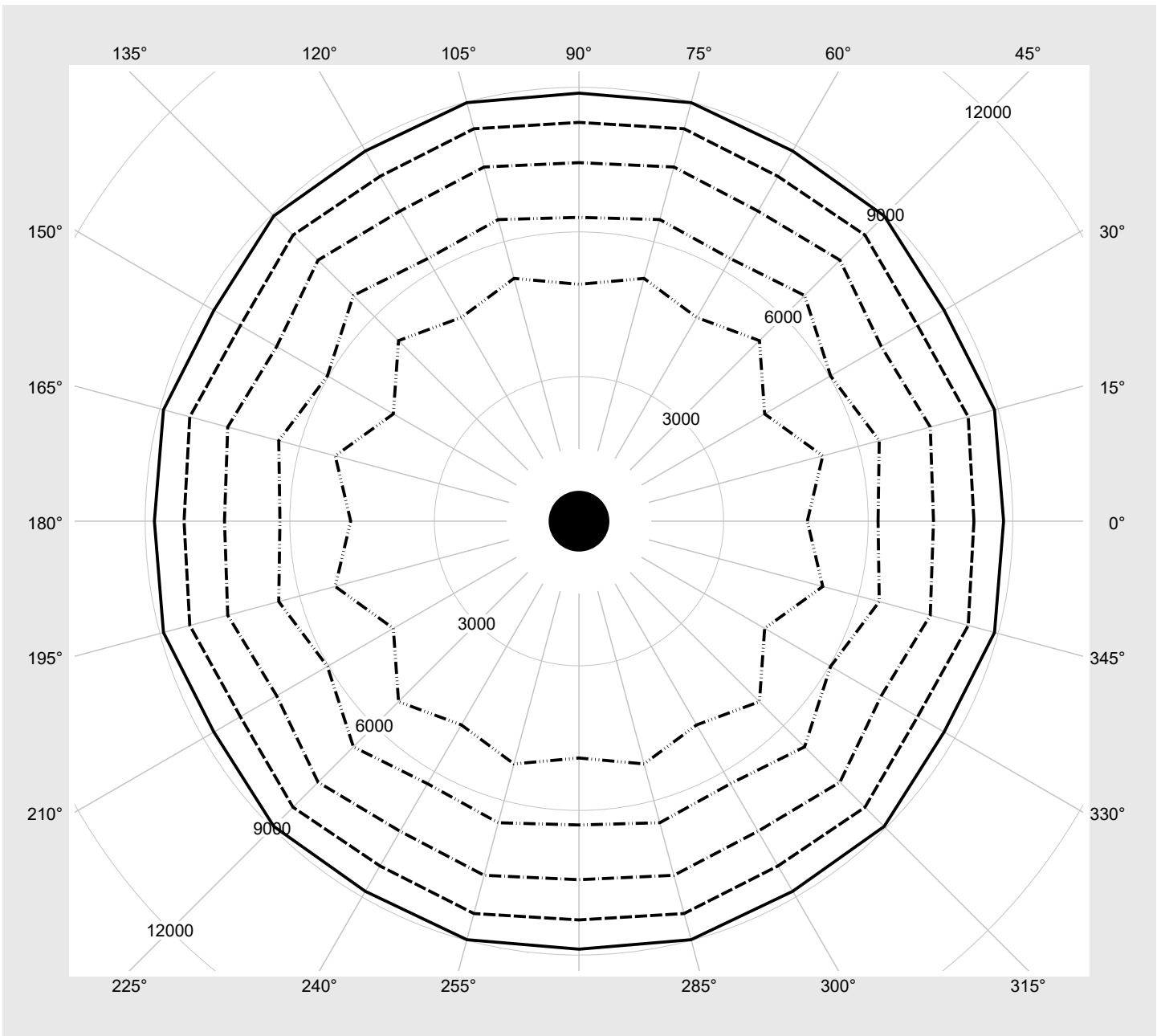
Photometric test report

Family
Round 21 M

Order number: 51MR36FM8321B
EAN: 4058352829899

LP number
59512_23

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



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|----------------------|---|-----------------------|

| | | |
|------------------|---------------------------------|---------------|
| Multilumen Table | environmental temperature: 25°C | siteco |
|------------------|---------------------------------|---------------|

| DIP-Step | Switch Setting | | | | Luminous flux [lm] | Power consumption [W] |
|----------|----------------|-----|-----|-----|-----------------------|--------------------------|
| | 1 | 2 | 3 | 4 | | |
| 15 | ON | ON | ON | ON | 8540 | 62.6 |
| 14 | ON | ON | ON | OFF | 8240 | 60.3 |
| 13 | ON | ON | OFF | ON | 7940 | 58.0 |
| 12 | ON | ON | OFF | OFF | 7640 | 55.6 |
| 11 | ON | OFF | ON | ON | 7340 | 53.3 |
| 10 | ON | OFF | ON | OFF | 7090 | 51.1 |
| 9 | ON | OFF | OFF | ON | 6780 | 48.8 |
| 8 | ON | OFF | OFF | OFF | 6480 | 46.6 |
| 7 | OFF | ON | ON | ON | 6180 | 44.3 |
| 6 | OFF | ON | ON | OFF | 5870 | 42.0 |
| 5 | OFF | ON | OFF | ON | 5570 | 39.7 |
| 4 | OFF | ON | OFF | OFF | 5300 | 37.5 |
| 3 | OFF | OFF | ON | ON | 4990 | 35.3 |
| 2 | OFF | OFF | ON | OFF | 4680 | 33.0 |
| 1 | OFF | OFF | OFF | ON | 4370 | 30.8 |
| 0 | OFF | OFF | OFF | OFF | 4060 | 28.5 |