

## Photometric test report

**Family**  
**Silica® 21 round M**

**Order number: 51ME21DB3NSA**  
**EAN: 4069025802576**

**LP number**  
**60073\_44**

**serial**  
**documentation**  
**20.05.2026**



**Version**

surface-mounted luminaire, housing, silver,  
cover, opal, direct extremely wide distribution  
with ceiling illumination, UGR≤22

**Lamps**

LED 3000 K | CRI ≥ 80

**Controlgear**

ECG-DALI

**Rated values**

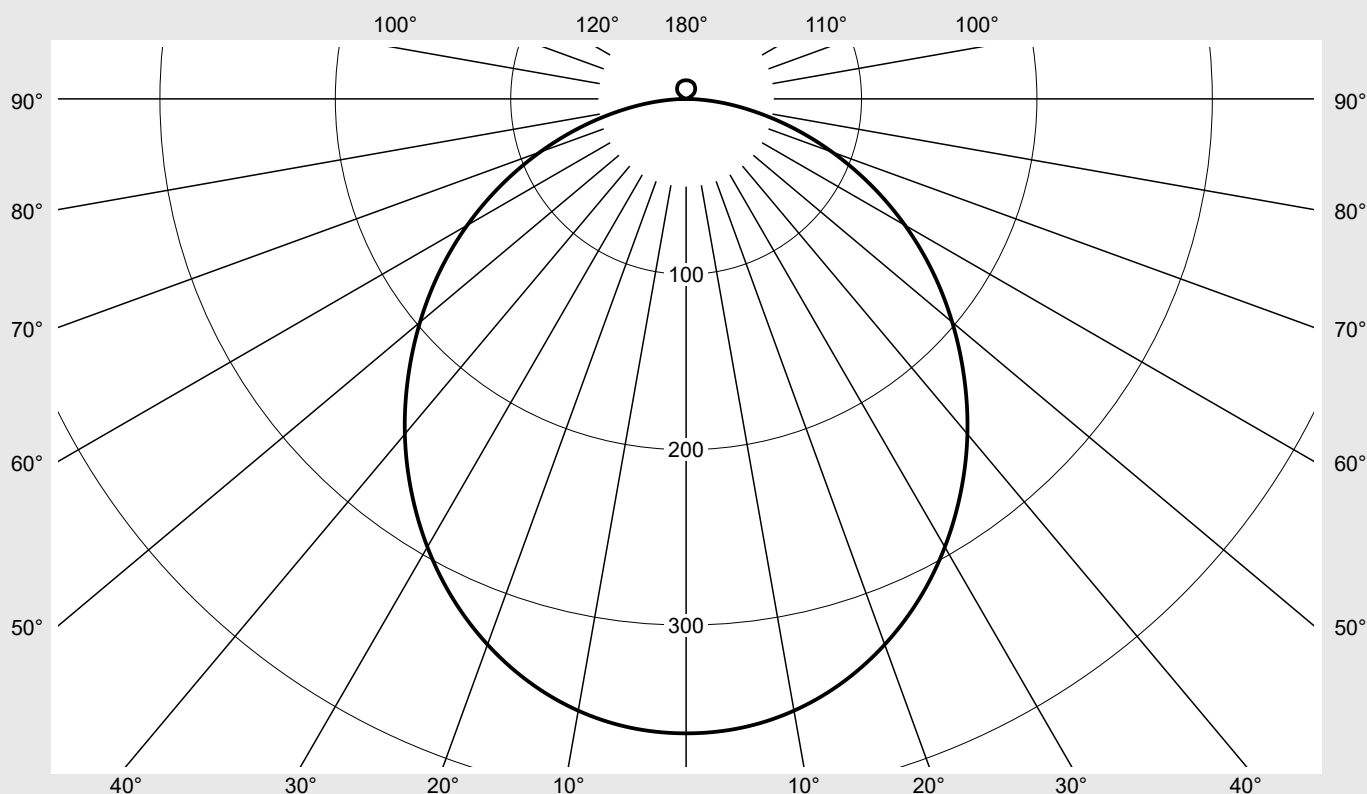
Net luminous flux = 5210 lm  
Power consumption = 34.9 W  
Luminous efficacy = 149.3 lm/W

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**Luminous intensity in cd/klm**

**C180-0**

**Imax: 362 cd/klm**



**Classifications**

DIN 5040 A 4 3  
CIE N1=49 N2=79 N3=96  
N4=97 N5=100

**Luminaire light output ratios**

$\eta_{LB}$  100.0%  
 $\phi_u$  97.2%  
 $\phi_o$  2.8%

**Measurement conditions**

DIN EN 13032 and DIN 5032

Photometric test report

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

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| C-planes | 0°                           | Phi-zone | Total<br>Phi-zone       |
|----------|------------------------------|----------|-------------------------|
| γ        | Luminous intensity in cd/klm |          | Luminous flux in lm/klm |
| 0°       | 361.7                        | 2.2      | 2.2                     |
| 5°       | 359.9                        | 17.2     | 19.4                    |
| 10°      | 354.2                        | 33.7     | 53.1                    |
| 15°      | 344.4                        | 48.9     | 101.9                   |
| 20°      | 331.1                        | 62.1     | 164.0                   |
| 25°      | 314.5                        | 72.9     | 236.9                   |
| 30°      | 295.0                        | 80.9     | 317.7                   |
| 35°      | 273.1                        | 85.9     | 403.6                   |
| 40°      | 249.5                        | 87.9     | 491.5                   |
| 45°      | 224.1                        | 86.9     | 578.4                   |
| 50°      | 198.0                        | 83.2     | 661.5                   |
| 55°      | 171.5                        | 77.0     | 738.5                   |
| 60°      | 144.1                        | 68.4     | 806.9                   |
| 65°      | 116.3                        | 57.8     | 864.7                   |
| 70°      | 88.6                         | 45.6     | 910.3                   |
| 75°      | 62.0                         | 32.8     | 943.1                   |
| 80°      | 37.4                         | 20.2     | 963.3                   |
| 85°      | 16.0                         | 8.7      | 972.1                   |
| 90°      | 0.1                          | 0.0      | 972.1                   |
| 95°      | 0.2                          | 0.1      | 972.2                   |
| 100°     | 0.5                          | 0.3      | 972.5                   |
| 105°     | 1.0                          | 0.5      | 973.0                   |
| 110°     | 1.6                          | 0.8      | 973.8                   |
| 115°     | 2.4                          | 1.2      | 975.0                   |
| 120°     | 3.8                          | 1.8      | 976.8                   |
| 125°     | 5.3                          | 2.4      | 979.2                   |
| 130°     | 6.4                          | 2.7      | 981.9                   |
| 135°     | 7.2                          | 2.8      | 984.7                   |
| 140°     | 8.0                          | 2.8      | 987.5                   |
| 145°     | 8.7                          | 2.7      | 990.2                   |
| 150°     | 9.3                          | 2.6      | 992.8                   |
| 155°     | 9.8                          | 2.3      | 995.1                   |
| 160°     | 10.1                         | 1.9      | 997.0                   |
| 165°     | 10.3                         | 1.5      | 998.4                   |
| 170°     | 10.5                         | 1.0      | 999.4                   |
| 175°     | 10.6                         | 0.5      | 999.9                   |
| 180°     | 10.6                         | 0.1      | 1000.0                  |

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

| UGR-Table                    |     | Standard room       |      |      |      |      |                    |      |      |      | sīTeco |  |
|------------------------------|-----|---------------------|------|------|------|------|--------------------|------|------|------|--------|--|
| 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  | 18.4                | 20.1 | 18.7 | 20.4 | 20.7 | 18.4               | 20.1 | 18.7 | 20.4 | 20.7   |  |
|                              | 3H  | 20.0                | 21.5 | 20.3 | 21.8 | 22.2 | 20.0               | 21.5 | 20.3 | 21.8 | 22.2   |  |
|                              | 4H  | 20.6                | 22.0 | 21.0 | 22.4 | 22.7 | 20.6               | 22.0 | 21.0 | 22.4 | 22.7   |  |
|                              | 6H  | 21.1                | 22.4 | 21.5 | 22.8 | 23.1 | 21.1               | 22.4 | 21.5 | 22.8 | 23.1   |  |
|                              | 8H  | 21.3                | 22.5 | 21.7 | 22.9 | 23.3 | 21.3               | 22.5 | 21.7 | 22.9 | 23.3   |  |
|                              | 12H | 21.4                | 22.5 | 21.8 | 22.9 | 23.3 | 21.4               | 22.5 | 21.8 | 22.9 | 23.3   |  |
| 4H                           | 2H  | 19.1                | 20.6 | 19.5 | 20.9 | 21.3 | 19.1               | 20.6 | 19.5 | 20.9 | 21.3   |  |
|                              | 3H  | 20.9                | 22.1 | 21.3 | 22.5 | 22.9 | 20.9               | 22.1 | 21.3 | 22.5 | 22.9   |  |
|                              | 4H  | 21.6                | 22.7 | 22.1 | 23.1 | 23.6 | 21.6               | 22.7 | 22.1 | 23.1 | 23.6   |  |
|                              | 6H  | 22.2                | 23.2 | 22.7 | 23.6 | 24.1 | 22.2               | 23.2 | 22.7 | 23.6 | 24.1   |  |
|                              | 8H  | 22.5                | 23.3 | 22.9 | 23.8 | 24.2 | 22.5               | 23.3 | 22.9 | 23.8 | 24.2   |  |
|                              | 12H | 22.6                | 23.4 | 23.1 | 23.8 | 24.3 | 22.6               | 23.4 | 23.1 | 23.8 | 24.3   |  |
| 8H                           | 4H  | 22.0                | 22.9 | 22.4 | 23.3 | 23.8 | 22.0               | 22.9 | 22.4 | 23.3 | 23.8   |  |
|                              | 6H  | 22.7                | 23.4 | 23.2 | 23.9 | 24.4 | 22.7               | 23.4 | 23.2 | 23.9 | 24.4   |  |
|                              | 8H  | 23.0                | 23.6 | 23.5 | 24.1 | 24.6 | 23.0               | 23.6 | 23.5 | 24.1 | 24.6   |  |
|                              | 12H | 23.2                | 23.7 | 23.7 | 24.2 | 24.8 | 23.2               | 23.7 | 23.7 | 24.2 | 24.8   |  |
| 12H                          | 4H  | 22.0                | 22.8 | 22.5 | 23.3 | 23.8 | 22.0               | 22.8 | 22.5 | 23.3 | 23.8   |  |
|                              | 6H  | 22.8                | 23.4 | 23.3 | 23.9 | 24.4 | 22.8               | 23.4 | 23.3 | 23.9 | 24.4   |  |
|                              | 8H  | 23.1                | 23.6 | 23.6 | 24.1 | 24.7 | 23.1               | 23.6 | 23.6 | 24.1 | 24.7   |  |

|                 |                                 |                               |         |
|-----------------|---------------------------------|-------------------------------|---------|
| Luminance table | Max. for $\gamma \geq 65^\circ$ | Photometric dimensions in mm: | D = 586 |
|-----------------|---------------------------------|-------------------------------|---------|

|          |                    |
|----------|--------------------|
| C-planes | 0°                 |
| $\gamma$ | Luminance in cd/m² |
| 45°      | 6122.6             |
| 50°      | 5951.7             |
| 55°      | 5774.9             |
| 60°      | 5567.1             |
| 65°      | 5314.6             |
| 70°      | 5003.7             |
| 75°      | 4630.8             |
| 80°      | 4156.4             |
| 85°      | 3550.3             |

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Luminance values in cd/m²

γ 65°

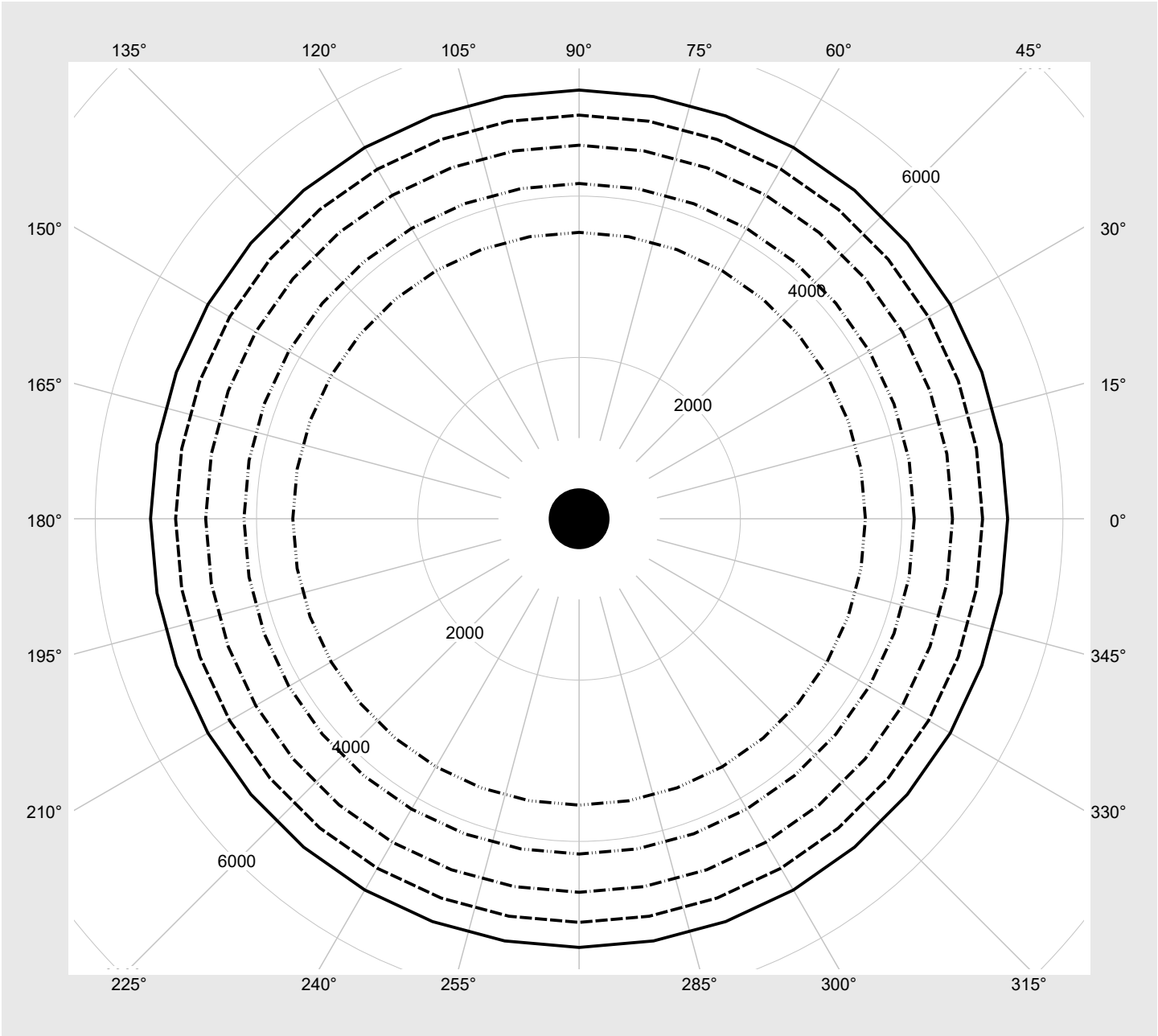
γ 70°

γ 75°

γ 80°

γ 85°

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|                              |                                                  |                                 |
|------------------------------|--------------------------------------------------|---------------------------------|
| Family<br>Silica® 21 round M | Order number: 51ME21DB3NSA<br>EAN: 4069025802576 | LP number<br>60073_44           |
| Dimming levels table         |                                                  | environmental temperature: 25°C |



| Luminous flux [%] | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-------------------|----------------------|---------------------------|--------------------|-----------------------|
| 100               | 254                  | 254                       | 5210               | 34.9                  |
| 95                | 241                  | 252                       | 4947               | 33.1                  |
| 90                | 228                  | 250                       | 4682               | 31.4                  |
| 85                | 216                  | 248                       | 4437               | 29.8                  |
| 80                | 203                  | 246                       | 4172               | 28.1                  |
| 75                | 190                  | 243                       | 3906               | 26.4                  |
| 70                | 177                  | 241                       | 3639               | 24.7                  |
| 65                | 165                  | 238                       | 3392               | 23.1                  |
| 60                | 152                  | 235                       | 3124               | 21.4                  |
| 55                | 139                  | 232                       | 2856               | 19.8                  |
| 50                | 127                  | 229                       | 2607               | 18.1                  |
| 45                | 114                  | 225                       | 2337               | 16.4                  |
| 40                | 102                  | 221                       | 2087               | 14.9                  |
| 35                | 89                   | 216                       | 1816               | 13.3                  |
| 30                | 77                   | 210                       | 1566               | 11.9                  |
| 25                | 64                   | 204                       | 1294               | 10.2                  |
| 20                | 52                   | 196                       | 1043               | 8.7                   |
| 15                | 39                   | 185                       | 771                | 6.7                   |
| 10                | 27                   | 172                       | 519                | 4.9                   |
| 5                 | 15                   | 150                       | 266                | 3.4                   |
| 1                 | 6                    | 117                       | 77                 | 2.2                   |