

## Photometric test report

**Family**  
**Silica® 21 round S**

**Order number: 51ME21DA4NWA**  
**EAN: 4069025800220**

**LP number**  
**60073\_3**

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

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

**Lamps** LED 4000 K | CRI ≥ 80

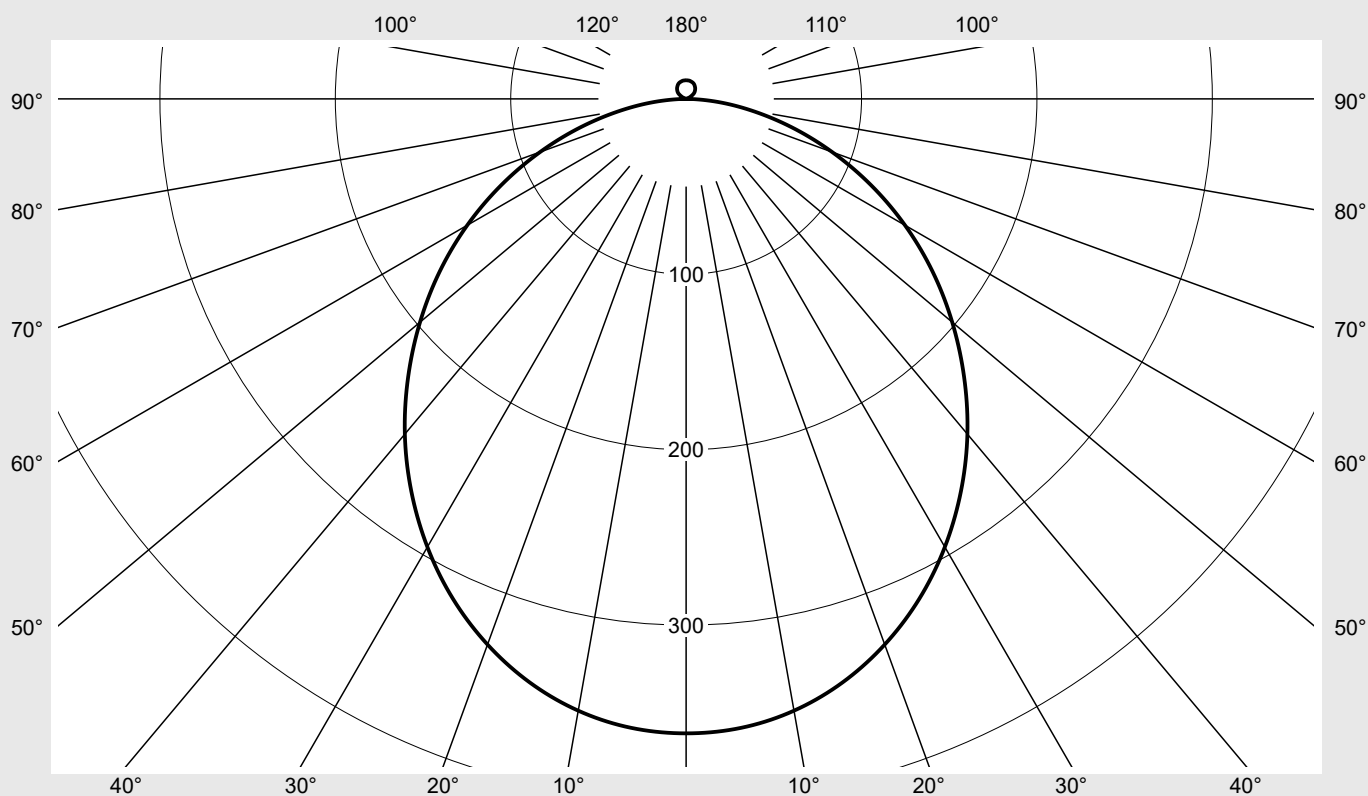
**Controlgear** ECG-DALI

**Rated values** Net luminous flux = 2250 lm  
Power consumption = 15.4 W  
Luminous efficacy = 146.1 lm/W

**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

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

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| C-<br>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                                    |      |      |      |                    |      |      | 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  | 18.4                | 20.1                                             | 18.7 | 20.4 | 20.7 | 18.4               | 20.1 | 18.7 | 20.4                 | 20.7 |
|                              | 3H  | 19.9                | 21.5                                             | 20.3 | 21.8 | 22.1 | 19.9               | 21.5 | 20.3 | 21.8                 | 22.1 |
|                              | 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 | 22.7 | 23.1 | 21.1               | 22.4 | 21.5 | 22.7                 | 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                | 20.5                                             | 19.5 | 20.9 | 21.3 | 19.1               | 20.5 | 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  | 22.4                | 23.3                                             | 22.9 | 23.7 | 24.2 | 22.4               | 23.3 | 22.9 | 23.7                 | 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                | 22.8                                             | 22.4 | 23.3 | 23.7 | 22.0               | 22.8 | 22.4 | 23.3                 | 23.7 |
|                              | 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 | 23.2 | 23.7 | 22.0               | 22.8 | 22.5 | 23.2                 | 23.7 |
|                              | 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 = 386 |
| C-planes        | 0°                 |                                 |                               |         |
| $\gamma$        | Luminance in cd/m² |                                 |                               |         |
| 45°             | 6094.0             |                                 |                               |         |
| 50°             | 5923.9             |                                 |                               |         |
| 55°             | 5747.9             |                                 |                               |         |
| 60°             | 5541.0             |                                 |                               |         |
| 65°             | 5289.7             |                                 |                               |         |
| 70°             | 4980.4             |                                 |                               |         |
| 75°             | 4609.2             |                                 |                               |         |
| 80°             | 4136.9             |                                 |                               |         |
| 85°             | 3533.7             |                                 |                               |         |

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Luminance values in cd/m²

γ 65°

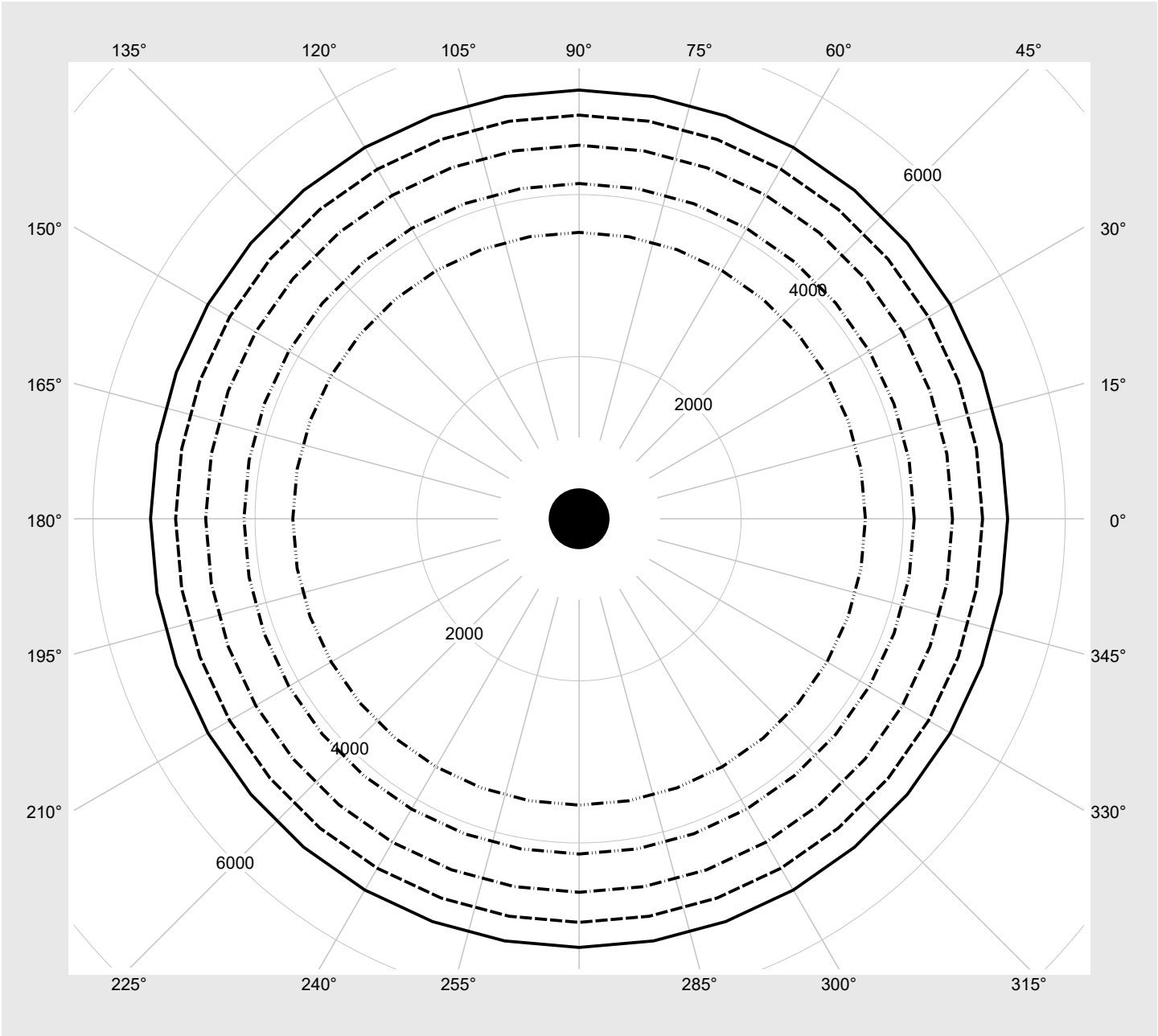
γ 70°

γ 75°

γ 80°

γ 85°

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|                                            |                                                                |                                        |
|--------------------------------------------|----------------------------------------------------------------|----------------------------------------|
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| <b>Dimming levels table</b>                |                                                                | <b>environmental temperature: 25°C</b> |



| Luminous flux [%] | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-------------------|----------------------|---------------------------|--------------------|-----------------------|
| 100               | 254                  | 254                       | 2250               | 15.4                  |
| 95                | 241                  | 252                       | 2135               | 14.6                  |
| 90                | 229                  | 250                       | 2029               | 13.9                  |
| 85                | 216                  | 248                       | 1914               | 13.2                  |
| 80                | 203                  | 246                       | 1799               | 12.5                  |
| 75                | 191                  | 244                       | 1692               | 11.8                  |
| 70                | 178                  | 241                       | 1576               | 11.2                  |
| 65                | 165                  | 238                       | 1461               | 10.4                  |
| 60                | 153                  | 235                       | 1354               | 9.8                   |
| 55                | 140                  | 232                       | 1237               | 9.0                   |
| 50                | 127                  | 229                       | 1121               | 8.3                   |
| 45                | 115                  | 225                       | 1014               | 7.6                   |
| 40                | 102                  | 221                       | 898                | 6.8                   |
| 35                | 90                   | 216                       | 790                | 6.1                   |
| 30                | 77                   | 210                       | 673                | 5.4                   |
| 25                | 65                   | 204                       | 565                | 4.6                   |
| 20                | 52                   | 196                       | 448                | 3.8                   |
| 15                | 40                   | 186                       | 340                | 3.1                   |
| 10                | 27                   | 172                       | 222                | 2.3                   |
| 5                 | 15                   | 150                       | 114                | 1.4                   |
| 5                 | 14                   | 148                       | 105                | 1.3                   |