

## Photometric test report

**Family**  
**Silica® 21 round S**

**Order number: 51MF41DA4NSA**  
**EAN: 4069025808691**

**LP number**  
**60071\_95**



**Version** Suspended luminaire, housing, silver, cover, opal, direct extremely wide distribution, UGR≤22

**Lamps** LED 4000 K | CRI ≥ 80

**Controlgear** ECG-DALI

**Rated values** Net luminous flux = 2190 lm  
Power consumption = 14.7 W  
Luminous efficacy = 149 lm/W

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

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**Luminous intensity in cd/klm**

**C180-0**

**Imax: 372 cd/klm**



### Classifications

DIN 5040 A 4 0  
CIE N1=49 N2=79 N3=96  
N4=100 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  100.0%  
 $\phi_o$  0.0%

### 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-planes | 0°                           | Phi-zone | Total<br>Phi-zone       |
|----------|------------------------------|----------|-------------------------|
| γ        | Luminous intensity in cd/klm |          | Luminous flux in lm/klm |
| 0°       | 372.1                        | 2.2      | 2.2                     |
| 5°       | 370.3                        | 17.7     | 19.9                    |
| 10°      | 364.3                        | 34.7     | 54.6                    |
| 15°      | 354.3                        | 50.3     | 104.9                   |
| 20°      | 340.6                        | 63.8     | 168.7                   |
| 25°      | 323.6                        | 75.0     | 243.7                   |
| 30°      | 303.5                        | 83.2     | 326.8                   |
| 35°      | 281.0                        | 88.3     | 415.2                   |
| 40°      | 256.7                        | 90.4     | 505.6                   |
| 45°      | 230.6                        | 89.4     | 595.0                   |
| 50°      | 203.7                        | 85.5     | 680.5                   |
| 55°      | 176.4                        | 79.2     | 759.7                   |
| 60°      | 148.2                        | 70.4     | 830.1                   |
| 65°      | 119.6                        | 59.4     | 889.5                   |
| 70°      | 91.1                         | 46.9     | 936.5                   |
| 75°      | 63.8                         | 33.8     | 970.3                   |
| 80°      | 38.4                         | 20.7     | 991.0                   |
| 85°      | 16.5                         | 9.0      | 1000.0                  |
| 90°      | 0.0                          | 0.0      | 1000.0                  |
| 95°      | 0.0                          | 0.0      | 1000.0                  |
| 100°     | 0.0                          | 0.0      | 1000.0                  |
| 105°     | 0.0                          | 0.0      | 1000.0                  |
| 110°     | 0.0                          | 0.0      | 1000.0                  |
| 115°     | 0.0                          | 0.0      | 1000.0                  |
| 120°     | 0.0                          | 0.0      | 1000.0                  |
| 125°     | 0.0                          | 0.0      | 1000.0                  |
| 130°     | 0.0                          | 0.0      | 1000.0                  |
| 135°     | 0.0                          | 0.0      | 1000.0                  |
| 140°     | 0.0                          | 0.0      | 1000.0                  |
| 145°     | 0.0                          | 0.0      | 1000.0                  |
| 150°     | 0.0                          | 0.0      | 1000.0                  |
| 155°     | 0.0                          | 0.0      | 1000.0                  |
| 160°     | 0.0                          | 0.0      | 1000.0                  |
| 165°     | 0.0                          | 0.0      | 1000.0                  |
| 170°     | 0.0                          | 0.0      | 1000.0                  |
| 175°     | 0.0                          | 0.0      | 1000.0                  |
| 180°     | 0.0                          | 0.0      | 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 | 22.2 | 19.9               | 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 | 22.7 | 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                | 20.6 | 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  | 22.4                | 23.3 | 22.9 | 23.8 | 24.2 | 22.4               | 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                | 22.8 | 22.4 | 23.3 | 23.8 | 22.0               | 22.8 | 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 | 23.7 | 22.0               | 22.8 | 22.5   | 23.3 | 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°      | 6102.0             |
| 50°      | 5931.7             |
| 55°      | 5755.5             |
| 60°      | 5548.3             |
| 65°      | 5296.6             |
| 70°      | 4986.9             |
| 75°      | 4615.2             |
| 80°      | 4142.4             |
| 85°      | 3538.5             |

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Luminance values in cd/m²

γ 65°

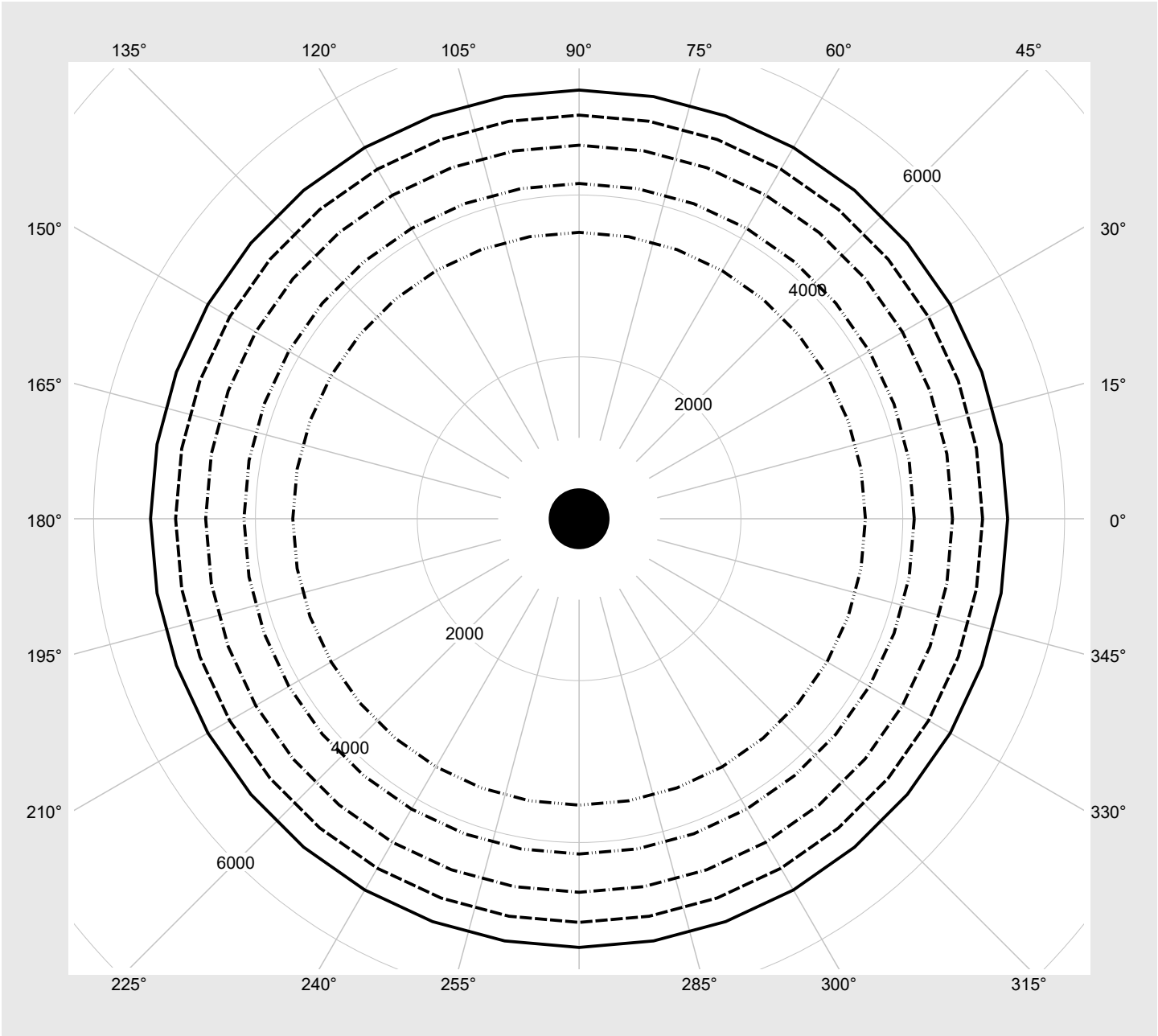
γ 70°

γ 75°

γ 80°

γ 85°

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

| Luminous flux<br>[%] | Dimming level<br>linear | Dimming level<br>logarithmic | Luminous flux<br>[lm] | Power consumption<br>[W] |
|----------------------|-------------------------|------------------------------|-----------------------|--------------------------|
| 100                  | 254                     | 254                          | 2190                  | 14.7                     |
| 95                   | 241                     | 252                          | 2079                  | 14.0                     |
| 90                   | 228                     | 250                          | 1968                  | 13.3                     |
| 85                   | 216                     | 248                          | 1864                  | 12.7                     |
| 80                   | 203                     | 246                          | 1753                  | 12.0                     |
| 75                   | 190                     | 243                          | 1641                  | 11.3                     |
| 70                   | 178                     | 241                          | 1537                  | 10.7                     |
| 65                   | 165                     | 238                          | 1424                  | 10.0                     |
| 60                   | 152                     | 235                          | 1312                  | 9.2                      |
| 55                   | 140                     | 232                          | 1207                  | 8.6                      |
| 50                   | 127                     | 229                          | 1093                  | 7.9                      |
| 45                   | 115                     | 225                          | 989                   | 7.2                      |
| 40                   | 102                     | 221                          | 875                   | 6.4                      |
| 35                   | 90                      | 216                          | 769                   | 5.8                      |
| 30                   | 77                      | 210                          | 654                   | 5.1                      |
| 25                   | 65                      | 204                          | 548                   | 4.4                      |
| 20                   | 53                      | 197                          | 442                   | 3.7                      |
| 15                   | 40                      | 186                          | 326                   | 3.0                      |
| 10                   | 28                      | 173                          | 219                   | 2.2                      |
| 5                    | 16                      | 153                          | 111                   | 1.4                      |
| 4                    | 14                      | 148                          | 93                    | 1.2                      |