

## Photometric test report

**Family**  
**Silica® 21 round M**

**Order number: 51MF41DBENWA**  
**EAN: 4069025809070**

**LP number**  
**60071\_67**



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

**Lamps** LED 4000 K | CRI ≥ 90

**Controlgear** ECG-DALI

**Rated values** Net luminous flux = 5060 lm  
Power consumption = 31.8 W  
Luminous efficacy = 159.1 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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|------------------------------|-----|---------------------|--------------------------------------------------|------|------|------|--------------------|------|------|-----------------------|------|
| 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  | 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  | 22.4                | 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 = 586 |
| C-planes        | 0°                 |                                 |                                       |
| $\gamma$        | Luminance in cd/m² |                                 |                                       |
| 45°             | 6117.2             |                                 |                                       |
| 50°             | 5946.5             |                                 |                                       |
| 55°             | 5769.9             |                                 |                                       |
| 60°             | 5562.2             |                                 |                                       |
| 65°             | 5309.9             |                                 |                                       |
| 70°             | 4999.4             |                                 |                                       |
| 75°             | 4626.8             |                                 |                                       |
| 80°             | 4152.7             |                                 |                                       |
| 85°             | 3547.3             |                                 |                                       |

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Luminance values in cd/m²

γ 65°

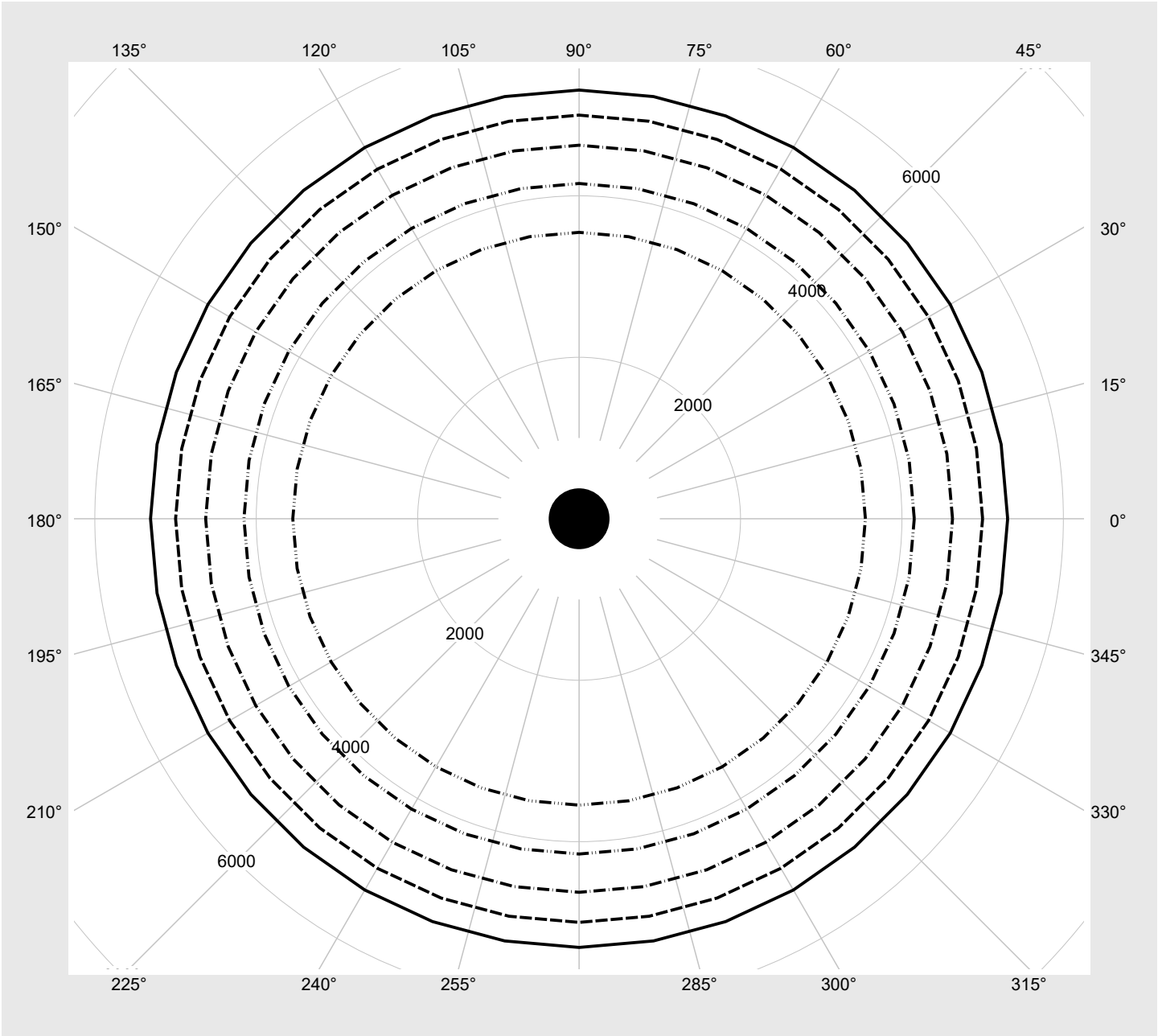
γ 70°

γ 75°

γ 80°

γ 85°

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|                              |                                                  |                                 |
|------------------------------|--------------------------------------------------|---------------------------------|
| Family<br>Silica® 21 round M | Order number: 51MF41DBENWA<br>EAN: 4069025809070 | LP number<br>60071_67           |
| Dimming levels table         |                                                  | environmental temperature: 25°C |
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| Luminous flux [%] | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-------------------|----------------------|---------------------------|--------------------|-----------------------|
| 100               | 254                  | 254                       | 5060               | 31.8                  |
| 95                | 241                  | 252                       | 4810               | 30.2                  |
| 90                | 228                  | 250                       | 4558               | 28.5                  |
| 85                | 215                  | 248                       | 4306               | 27.1                  |
| 80                | 202                  | 246                       | 4053               | 25.4                  |
| 75                | 189                  | 243                       | 3798               | 23.8                  |
| 70                | 176                  | 241                       | 3542               | 22.3                  |
| 65                | 163                  | 238                       | 3285               | 20.7                  |
| 60                | 150                  | 235                       | 3028               | 19.1                  |
| 55                | 138                  | 232                       | 2789               | 17.7                  |
| 50                | 125                  | 228                       | 2530               | 16.2                  |
| 45                | 112                  | 224                       | 2269               | 14.6                  |
| 40                | 100                  | 220                       | 2028               | 13.3                  |
| 35                | 87                   | 215                       | 1766               | 11.8                  |
| 30                | 75                   | 209                       | 1523               | 10.5                  |
| 25                | 62                   | 202                       | 1259               | 9.0                   |
| 20                | 50                   | 194                       | 1015               | 7.5                   |
| 15                | 37                   | 183                       | 749                | 5.8                   |
| 10                | 25                   | 169                       | 503                | 4.2                   |
| 5                 | 13                   | 145                       | 257                | 2.8                   |
| 3                 | 7                    | 122                       | 133                | 2.1                   |