

## Photometric test report

**Family**  
**Silica® 21 round M**

**Order number: 51ME43DB3MSA**  
**EAN: 4069025803177**

**LP number**  
**59826\_869**

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

**siteco**



**Version** Suspended luminaire, housing, silver, microprismatic optics, direct wide distribution, UGR≤19

**Lamps** LED 3000 K | CRI ≥ 80

**Controlgear** ECG-DALI

**Rated values** Net luminous flux = 5560 lm  
Power consumption = 37.1 W  
Luminous efficacy = 149.9 lm/W

**Luminous intensity in cd/klm**

**C180-0**

**C270-90**

**Imax: 487 cd/klm**



### Classifications

DIN 5040 A 5 0  
CIE N1=64 N2=89 N3=97  
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

Photometric test report

|                                          |                                                  |                            |
|------------------------------------------|--------------------------------------------------|----------------------------|
| Family<br>Silica® 21 round M             | Order number: 51ME43DB3MSA<br>EAN: 4069025803177 | LP number<br>59826_869     |
| Table of values for luminous intensities |                                                  | Maximum luminous intensity |
|                                          |                                                  | siteco                     |

| C-<br>planes | 0°<br>180°                   | 15°<br>165°<br>195°<br>345° | 30°<br>150°<br>210°<br>330° | 45°<br>135°<br>225°<br>315° | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270° | Phi-zone                | Total<br>Phi-zone |
|--------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|-------------------------|-------------------|
| γ            | Luminous intensity in cd/klm |                             |                             |                             |                             |                             |             | Luminous flux in lm/klm |                   |
| 0°           | 486.1                        | 486.1                       | 486.1                       | 486.1                       | 486.1                       | 486.1                       | 486.1       | 2.9                     | 2.9               |
| 5°           | 486.7                        | 484.1                       | 481.4                       | 483.1                       | 485.4                       | 485.1                       | 485.0       | 23.1                    | 26.0              |
| 10°          | 480.4                        | 477.8                       | 474.6                       | 475.9                       | 477.9                       | 477.5                       | 477.5       | 45.4                    | 71.5              |
| 15°          | 468.5                        | 466.0                       | 462.5                       | 463.3                       | 464.8                       | 464.2                       | 464.0       | 65.9                    | 137.4             |
| 20°          | 452.3                        | 449.7                       | 445.8                       | 446.0                       | 446.9                       | 446.2                       | 446.0       | 83.9                    | 221.2             |
| 25°          | 432.8                        | 429.8                       | 425.0                       | 424.8                       | 425.7                       | 424.4                       | 423.6       | 98.8                    | 320.0             |
| 30°          | 409.4                        | 405.7                       | 400.1                       | 399.8                       | 401.2                       | 399.1                       | 397.5       | 110.0                   | 430.0             |
| 35°          | 379.7                        | 376.2                       | 369.4                       | 369.8                       | 370.7                       | 368.6                       | 365.6       | 116.7                   | 546.7             |
| 40°          | 334.5                        | 334.6                       | 328.5                       | 328.1                       | 322.7                       | 324.2                       | 320.4       | 115.4                   | 662.1             |
| 45°          | 236.5                        | 251.7                       | 255.4                       | 250.5                       | 228.6                       | 250.0                       | 251.1       | 95.6                    | 757.7             |
| 50°          | 143.7                        | 164.9                       | 192.5                       | 164.8                       | 142.8                       | 162.3                       | 188.3       | 69.5                    | 827.3             |
| 55°          | 88.6                         | 101.2                       | 143.4                       | 100.8                       | 87.8                        | 98.6                        | 141.0       | 48.4                    | 875.6             |
| 60°          | 56.4                         | 68.4                        | 100.7                       | 69.1                        | 56.3                        | 67.5                        | 101.9       | 34.9                    | 910.5             |
| 65°          | 50.4                         | 58.5                        | 62.3                        | 59.9                        | 51.6                        | 59.9                        | 58.9        | 28.7                    | 939.3             |
| 70°          | 41.3                         | 50.4                        | 31.9                        | 51.3                        | 41.6                        | 51.4                        | 31.5        | 22.6                    | 961.8             |
| 75°          | 39.1                         | 35.2                        | 27.9                        | 35.9                        | 39.6                        | 35.7                        | 25.6        | 18.2                    | 980.1             |
| 80°          | 28.0                         | 21.2                        | 27.7                        | 20.6                        | 28.4                        | 21.6                        | 29.6        | 13.4                    | 993.4             |
| 85°          | 13.1                         | 12.2                        | 10.3                        | 12.3                        | 13.0                        | 12.5                        | 10.4        | 6.6                     | 1000.0            |
| 90°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 95°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 100°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 105°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 110°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 115°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 120°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 125°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 130°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 135°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 140°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 145°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 150°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 155°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 160°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 165°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 170°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 175°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |
| 180°         | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 1000.0            |

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|                              |                                                  |                        |
|------------------------------|--------------------------------------------------|------------------------|
| Family<br>Silica® 21 round M | Order number: 51ME43DB3MSA<br>EAN: 4069025803177 | LP number<br>59826_869 |
| 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  | 16.9                | 18.4 | 17.3 | 18.7 | 19.1 | 16.7               | 18.2 | 17.1 | 18.5 | 18.9 |
|                              | 3H  | 17.6                | 19.0 | 18.0 | 19.3 | 19.7 | 17.5               | 18.8 | 17.9 | 19.2 | 19.5 |
|                              | 4H  | 18.1                | 19.4 | 18.5 | 19.7 | 20.1 | 17.8               | 19.1 | 18.2 | 19.4 | 19.8 |
|                              | 6H  | 18.6                | 19.7 | 19.0 | 20.1 | 20.5 | 18.3               | 19.4 | 18.7 | 19.8 | 20.2 |
|                              | 8H  | 18.8                | 19.9 | 19.2 | 20.3 | 20.7 | 18.6               | 19.6 | 19.0 | 20.0 | 20.4 |
|                              | 12H | 19.0                | 20.0 | 19.4 | 20.4 | 20.8 | 18.7               | 19.7 | 19.1 | 20.1 | 20.5 |
| 4H                           | 2H  | 17.2                | 18.4 | 17.6 | 18.8 | 19.2 | 17.0               | 18.3 | 17.4 | 18.6 | 19.0 |
|                              | 3H  | 18.0                | 19.1 | 18.4 | 19.5 | 19.9 | 18.0               | 19.1 | 18.4 | 19.5 | 19.9 |
|                              | 4H  | 18.6                | 19.5 | 19.0 | 19.9 | 20.4 | 18.5               | 19.5 | 19.0 | 19.9 | 20.3 |
|                              | 6H  | 19.2                | 20.0 | 19.6 | 20.4 | 20.9 | 19.1               | 20.0 | 19.6 | 20.4 | 20.8 |
|                              | 8H  | 19.4                | 20.2 | 19.9 | 20.6 | 21.1 | 19.4               | 20.2 | 19.9 | 20.6 | 21.1 |
|                              | 12H | 19.7                | 20.3 | 20.2 | 20.8 | 21.3 | 19.6               | 20.3 | 20.1 | 20.7 | 21.2 |
| 8H                           | 4H  | 18.8                | 19.6 | 19.3 | 20.0 | 20.5 | 18.8               | 19.6 | 19.3 | 20.0 | 20.5 |
|                              | 6H  | 19.6                | 20.2 | 20.1 | 20.7 | 21.2 | 19.6               | 20.2 | 20.1 | 20.7 | 21.2 |
|                              | 8H  | 20.0                | 20.5 | 20.5 | 21.0 | 21.5 | 20.0               | 20.5 | 20.5 | 21.0 | 21.5 |
|                              | 12H | 20.3                | 20.7 | 20.8 | 21.2 | 21.8 | 20.3               | 20.7 | 20.8 | 21.2 | 21.8 |
| 12H                          | 4H  | 18.9                | 19.5 | 19.4 | 20.0 | 20.5 | 18.9               | 19.5 | 19.4 | 20.0 | 20.5 |
|                              | 6H  | 19.7                | 20.2 | 20.2 | 20.7 | 21.2 | 19.7               | 20.2 | 20.2 | 20.7 | 21.2 |
|                              | 8H  | 20.1                | 20.5 | 20.6 | 21.0 | 21.6 | 20.1               | 20.6 | 20.6 | 21.1 | 21.6 |

| Luminance table |                    | Max. for $\gamma \geq 65^\circ$ |                             | Photometric dimensions in mm: |                             | D = 586                     |             |
|-----------------|--------------------|---------------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-------------|
| C-planes        | 0°<br>180°         | 15°<br>165°<br>195°<br>345°     | 30°<br>150°<br>210°<br>330° | 45°<br>135°<br>225°<br>315°   | 60°<br>120°<br>240°<br>300° | 75°<br>105°<br>255°<br>285° | 90°<br>270° |
| $\gamma$        | Luminance in cd/m² |                                 |                             |                               |                             |                             |             |
| 45°             | 6895.8             | 7339.3                          | 7445.2                      | 7302.1                        | 6664.0                      | 7287.8                      | 7322.1      |
| 50°             | 4609.4             | 5288.0                          | 6174.1                      | 5284.9                        | 4578.8                      | 5204.1                      | 6040.3      |
| 55°             | 3183.9             | 3637.3                          | 5154.5                      | 3621.4                        | 3154.6                      | 3542.8                      | 5068.9      |
| 60°             | 2326.8             | 2819.0                          | 4150.5                      | 2850.0                        | 2319.7                      | 2782.0                      | 4199.5      |
| 65°             | 2456.9             | 2852.1                          | 3038.8                      | 2922.3                        | 2518.2                      | 2923.4                      | 2874.8      |
| 70°             | 2492.3             | 3038.3                          | 1924.6                      | 3095.1                        | 2506.2                      | 3101.0                      | 1901.3      |
| 75°             | 3112.9             | 2800.5                          | 2222.8                      | 2861.5                        | 3157.8                      | 2840.1                      | 2038.0      |
| 80°             | 3329.9             | 2521.3                          | 3290.4                      | 2448.6                        | 3368.4                      | 2569.8                      | 3510.6      |
| 85°             | 3096.7             | 2895.9                          | 2444.6                      | 2905.3                        | 3079.4                      | 2966.8                      | 2458.3      |

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Family  
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Order number: 51ME43DB3MSA  
EAN: 4069025803177

LP number  
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Luminance values in cd/m²

γ 65°

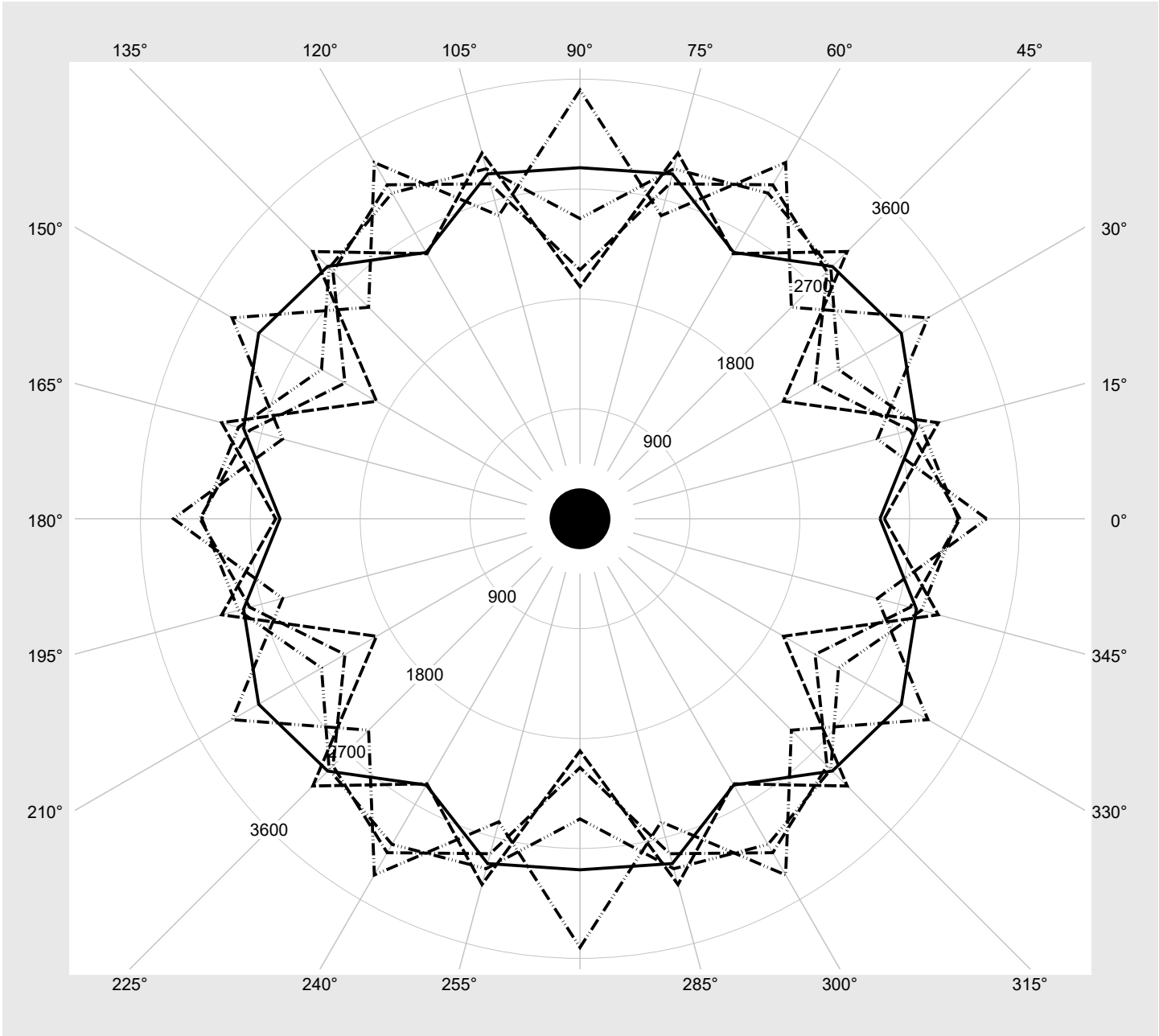
γ 70°

γ 75°

γ 80°

γ 85°

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|                                                                        |                                                                |                                                                                     |
|------------------------------------------------------------------------|----------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>Family</b><br><b>Silica® 21 round M</b>                             | <b>Order number: 51ME43DB3MSA</b><br><b>EAN: 4069025803177</b> | <b>LP number</b><br><b>59826_869</b>                                                |
| <b>Dimming levels table</b> <div>environmental temperature: 25°C</div> |                                                                |  |

| Luminous flux [%] | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-------------------|----------------------|---------------------------|--------------------|-----------------------|
| 100               | 254                  | 254                       | 5560               | 37.1                  |
| 95                | 241                  | 252                       | 5279               | 35.4                  |
| 90                | 228                  | 250                       | 4997               | 33.4                  |
| 85                | 216                  | 248                       | 4736               | 31.8                  |
| 80                | 203                  | 246                       | 4453               | 29.9                  |
| 75                | 190                  | 243                       | 4169               | 28.0                  |
| 70                | 177                  | 241                       | 3886               | 26.2                  |
| 65                | 165                  | 238                       | 3622               | 24.6                  |
| 60                | 152                  | 235                       | 3336               | 22.6                  |
| 55                | 139                  | 232                       | 3050               | 20.9                  |
| 50                | 127                  | 229                       | 2786               | 19.2                  |
| 45                | 114                  | 225                       | 2497               | 17.4                  |
| 40                | 102                  | 221                       | 2231               | 15.8                  |
| 35                | 89                   | 216                       | 1943               | 14.1                  |
| 30                | 77                   | 210                       | 1675               | 12.5                  |
| 25                | 64                   | 204                       | 1385               | 10.8                  |
| 20                | 52                   | 196                       | 1117               | 9.1                   |
| 15                | 39                   | 185                       | 827                | 7.1                   |
| 10                | 27                   | 172                       | 558                | 5.2                   |
| 5                 | 15                   | 150                       | 288                | 3.6                   |
| 2                 | 6                    | 117                       | 86                 | 2.2                   |