

## Photometric test report

**Family**  
**Silica® 21 Floor**

**Order number: 51MX53DA3ZM00990XX**  
**EAN: 4069025333759**

**LP number**  
**59648\_12**

**serial**  
**documentation**  
**09.04.2025**

**siteco**

**Version** floorstanding uplight, with homogeneous illumination, prismatic cover, indirect-/ direct distribution, extremely wide distribution, with presence- and daylightsensor

**Lamps** LED 3000 K | CRI ≥ 80

**Controlgear** ECG-DALI

**Setting** individual position: only indirect light

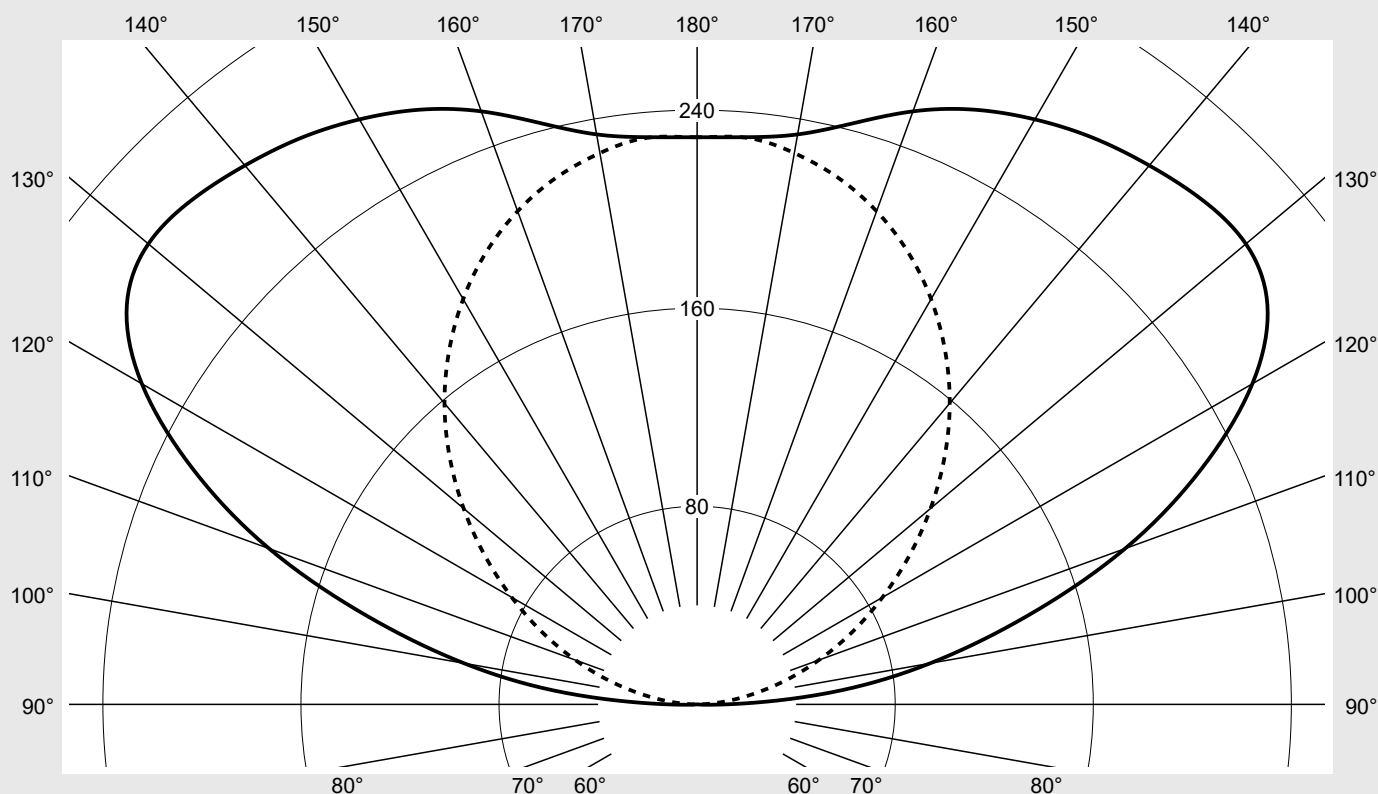
**Rated values** Net luminous flux = 10000 lm  
Power consumption = 64.1 W  
Luminous efficacy = 156 lm/W

**Luminous intensity in cd/klm**

**C180-0**

**C270-90**

**Imax: 289 cd/klm**



### Classifications

DIN 5040 E 1 2  
CIE N1=0 N2=0 N3=0  
N4=0 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  0.3%  
 $\phi_o$  99.7%

### Measurement conditions

DIN EN 13032 and DIN 5032

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|                                          |                                                        |                            |
|------------------------------------------|--------------------------------------------------------|----------------------------|
| Family<br>Silica® 21 Floor               | Order number: 51MX53DA3ZM00990XX<br>EAN: 4069025333759 | LP number<br>59648_12      |
| 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°           | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 5°           | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 10°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 15°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 20°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 25°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 30°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 35°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 40°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 45°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 50°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 55°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 60°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 65°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 70°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 75°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 80°          | 0.0                          | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0                         | 0.0         | 0.0                     | 0.0               |
| 85°          | 0.9                          | 0.9                         | 0.9                         | 0.8                         | 0.7                         | 0.7                         | 0.7         | 0.4                     | 0.4               |
| 90°          | 11.5                         | 11.2                        | 11.8                        | 11.6                        | 6.9                         | 2.4                         | 0.9         | 4.6                     | 5.0               |
| 95°          | 53.3                         | 54.6                        | 58.7                        | 55.5                        | 35.6                        | 18.2                        | 9.4         | 23.1                    | 28.1              |
| 100°         | 95.6                         | 98.1                        | 99.0                        | 86.8                        | 58.3                        | 33.0                        | 21.6        | 39.0                    | 67.1              |
| 105°         | 138.1                        | 140.4                       | 137.2                       | 117.3                       | 80.1                        | 49.7                        | 36.5        | 54.0                    | 121.1             |
| 110°         | 184.0                        | 185.7                       | 173.9                       | 143.9                       | 103.1                       | 67.2                        | 52.3        | 68.0                    | 189.1             |
| 115°         | 224.6                        | 223.0                       | 205.9                       | 169.1                       | 125.1                       | 85.0                        | 69.1        | 79.1                    | 268.2             |
| 120°         | 259.0                        | 254.8                       | 232.1                       | 190.2                       | 145.4                       | 102.1                       | 86.4        | 86.8                    | 355.0             |
| 125°         | 281.2                        | 275.1                       | 248.8                       | 207.4                       | 162.0                       | 118.7                       | 104.6       | 90.2                    | 445.2             |
| 130°         | 289.3                        | 283.0                       | 256.4                       | 219.1                       | 175.3                       | 134.9                       | 123.1       | 89.2                    | 534.4             |
| 135°         | 288.3                        | 283.0                       | 259.3                       | 227.1                       | 186.9                       | 150.6                       | 141.4       | 85.4                    | 619.8             |
| 140°         | 284.1                        | 280.3                       | 260.5                       | 231.9                       | 196.2                       | 165.7                       | 158.7       | 79.6                    | 699.4             |
| 145°         | 279.2                        | 276.5                       | 259.8                       | 234.5                       | 203.5                       | 179.7                       | 174.6       | 72.4                    | 771.8             |
| 150°         | 272.8                        | 270.9                       | 256.5                       | 235.2                       | 209.8                       | 192.5                       | 189.0       | 63.8                    | 835.5             |
| 155°         | 265.0                        | 263.6                       | 251.0                       | 233.7                       | 215.0                       | 203.7                       | 201.5       | 54.1                    | 889.6             |
| 160°         | 254.9                        | 254.0                       | 243.6                       | 231.0                       | 219.4                       | 213.1                       | 211.9       | 43.6                    | 933.2             |
| 165°         | 242.9                        | 242.8                       | 235.7                       | 229.0                       | 223.3                       | 220.4                       | 220.2       | 32.7                    | 965.9             |
| 170°         | 233.7                        | 234.5                       | 230.6                       | 228.3                       | 226.5                       | 225.7                       | 226.1       | 21.8                    | 987.7             |
| 175°         | 229.9                        | 230.9                       | 228.6                       | 228.5                       | 228.4                       | 228.9                       | 229.7       | 10.9                    | 998.6             |
| 180°         | 229.0                        | 229.0                       | 229.0                       | 229.0                       | 229.0                       | 229.0                       | 229.0       | 1.4                     | 1000.0            |

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UGR-Table

Standard room

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The UGR formula for this luminaire type cannot be used, see LiTG Publication 20:  
"The UGR - Process for Evaluation of Direct Glare of Artificial Lighting in Indoor Rooms"

| Luminance table |                    | Max. for $\gamma \geq 65^\circ$ |                             | Photometric dimensions in mm: |                             | L = 1200<br>B = 50          |             |
|-----------------|--------------------|---------------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-------------|
| 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°             | 0.0                | 0.0                             | 0.0                         | 0.0                           | 0.0                         | 0.0                         | 0.0         |
| 50°             | 0.0                | 0.0                             | 0.0                         | 0.0                           | 0.0                         | 0.0                         | 0.0         |
| 55°             | 0.0                | 0.0                             | 0.0                         | 0.0                           | 0.0                         | 0.0                         | 0.0         |
| 60°             | 0.0                | 0.0                             | 0.0                         | 0.0                           | 0.0                         | 0.0                         | 0.0         |
| 65°             | 0.0                | 0.0                             | 0.0                         | 0.0                           | 0.0                         | 0.0                         | 0.0         |
| 70°             | 0.0                | 0.0                             | 0.0                         | 0.0                           | 0.0                         | 0.0                         | 0.0         |
| 75°             | 0.0                | 0.0                             | 0.0                         | 0.0                           | 0.0                         | 0.0                         | 0.0         |
| 80°             | 0.0                | 0.0                             | 0.0                         | 0.0                           | 0.0                         | 0.0                         | 0.0         |
| 85°             | 1774.6             | 1723.0                          | 1636.9                      | 1483.9                        | 1348.2                      | 1262.1                      | 1262.1      |

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Luminance values in cd/m²

γ 65°

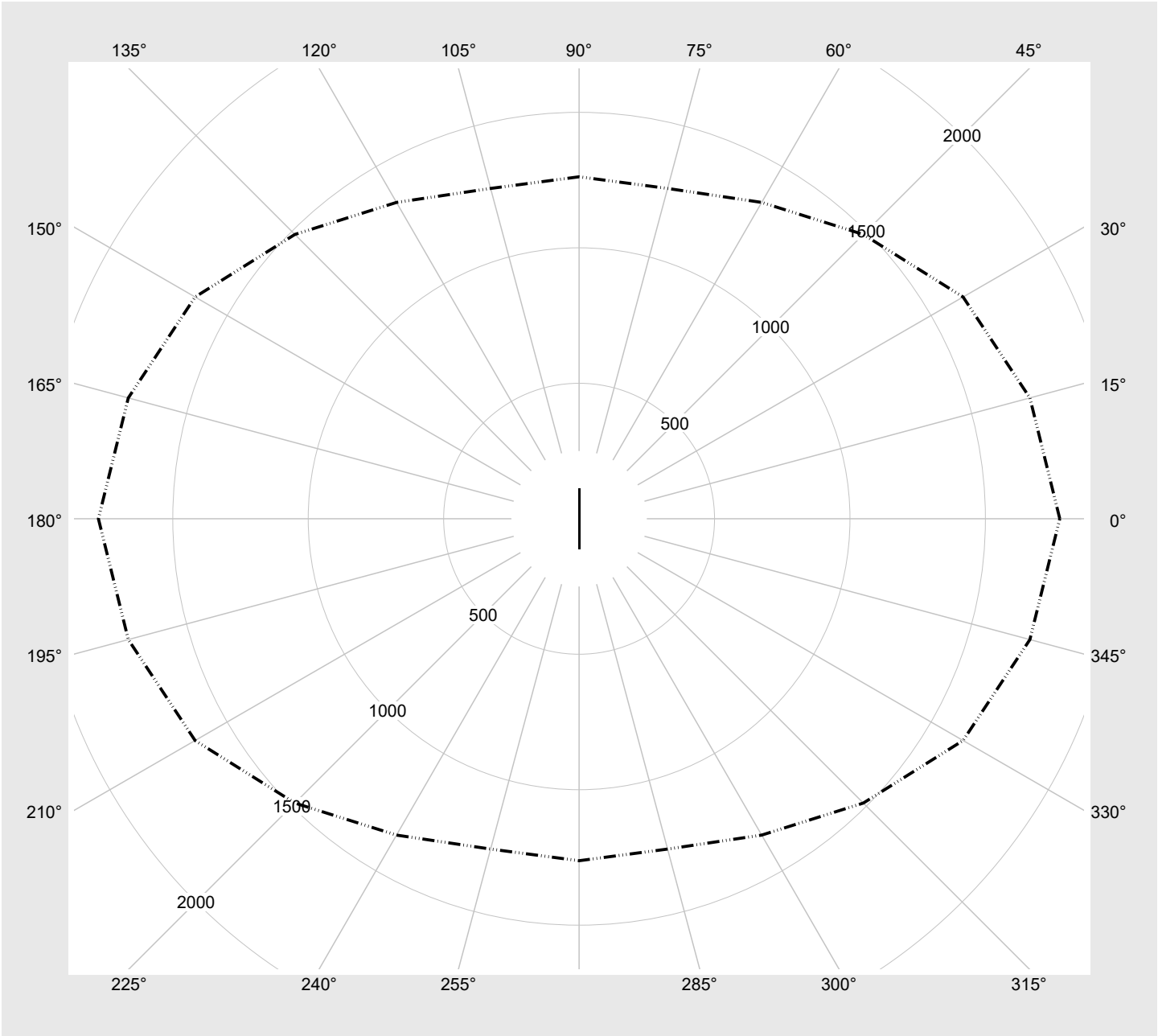
γ 70°

γ 75°

γ 80°

γ 85°

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|                            |                                                        |                                 |
|----------------------------|--------------------------------------------------------|---------------------------------|
| Family<br>Silica® 21 Floor | Order number: 51MX53DA3ZM00990XX<br>EAN: 4069025333759 | LP number<br>59648_12           |
| Dimming levels table       |                                                        | environmental temperature: 25°C |



| Luminous flux<br>% | Dimming level<br>linear | Dimming level<br>logarithmic | Luminous flux<br>[lm] | Power consumption<br>[W] |
|--------------------|-------------------------|------------------------------|-----------------------|--------------------------|
| 100                | 254                     | 254                          | 10000                 | 64.1                     |
| 95                 | 240                     | 252                          | 9490                  | 60.7                     |
| 90                 | 227                     | 250                          | 9010                  | 57.3                     |
| 85                 | 213                     | 248                          | 8490                  | 53.8                     |
| 80                 | 200                     | 245                          | 8002                  | 50.5                     |
| 75                 | 187                     | 243                          | 7510                  | 47.4                     |
| 70                 | 174                     | 240                          | 7015                  | 44.1                     |
| 65                 | 161                     | 237                          | 6515                  | 40.9                     |
| 60                 | 148                     | 234                          | 6010                  | 37.7                     |
| 55                 | 135                     | 231                          | 5501                  | 34.5                     |
| 50                 | 122                     | 227                          | 4988                  | 31.3                     |
| 45                 | 110                     | 223                          | 4512                  | 28.4                     |
| 40                 | 97                      | 219                          | 3989                  | 25.4                     |
| 35                 | 85                      | 214                          | 3505                  | 22.5                     |
| 30                 | 73                      | 208                          | 3017                  | 19.6                     |
| 25                 | 60                      | 201                          | 2483                  | 16.5                     |
| 20                 | 48                      | 193                          | 1990                  | 13.9                     |
| 15                 | 36                      | 182                          | 1493                  | 11.2                     |
| 10                 | 24                      | 168                          | 993                   | 8.4                      |
| 5                  | 12                      | 142                          | 488                   | 5.2                      |
| 2                  | 4                       | 102                          | 151                   | 3.2                      |