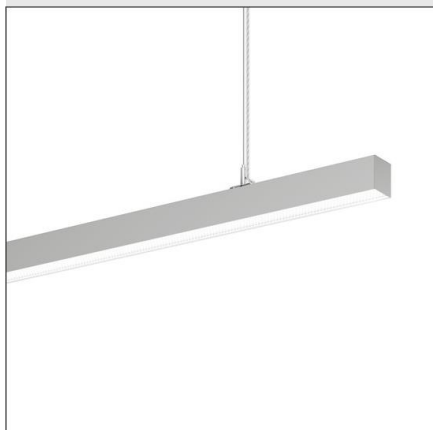


## Photometric test report

Family  
**Silica® 21**



Order number: **51MX33DB39SB**  
EAN: **4058352889015**

LP number  
**59331\_100**

serial  
documentation  
**02.08.2023**

**Version**

Suspended luminaire, with homogeneous illumination, prismatic cover, direct-/ indirect distribution, extremely wide distribution,  $UGR \leq 16$  ( $L65 \leq 3000 \text{ cd/m}^2$ )

**Lamps**

LED 3000 K | CRI  $\geq 80$

**Controlgear**

ECG-DALI

**Rated values**

Net luminous flux = 7390 lm

Power consumption = 51.6 W

Luminous efficacy = 143.2 lm/W

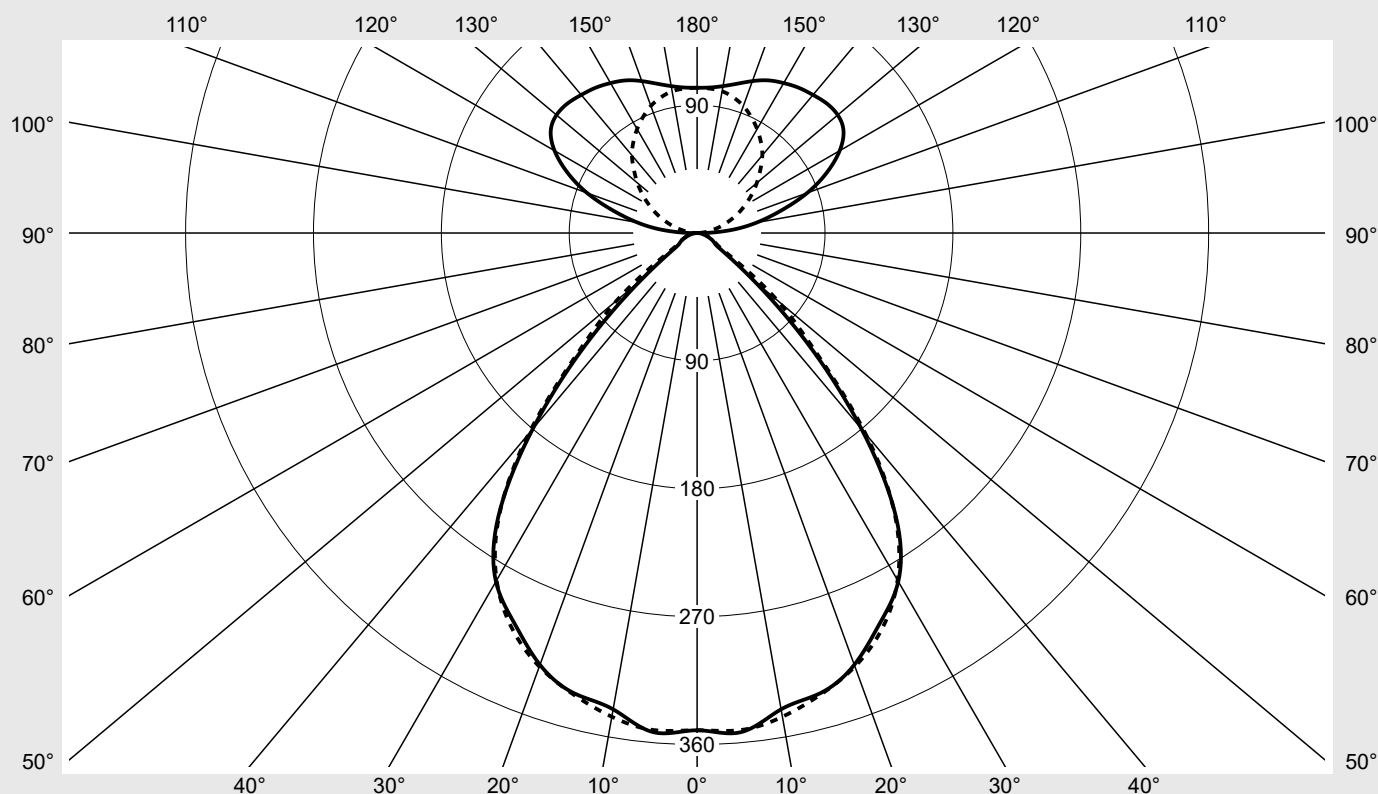
**siteco**

Luminous intensity in cd/klm

**C180-0**

**C270-90**

**Imax: 353 cd/klm**



**Classifications**

DIN 5040 C 6 2  
CIE N1=78 N2=96 N3=99  
N4=55 N5=100

**Luminaire light output ratios**

$\eta_{LB}$  100.0%  
 $\phi_u$  55.4%  
 $\phi_o$  44.6%

**Measurement conditions**

DIN EN 13032 and DIN 5032

Photometric test report

|                                          |                                                  |                            |
|------------------------------------------|--------------------------------------------------|----------------------------|
| Family<br>Silica® 21                     | Order number: 51MX33DB39SB<br>EAN: 4058352889015 | LP number<br>59331_100     |
| 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°           | 349.9                        | 349.9                       | 349.9                       | 349.9                       | 349.9                       | 349.9                       | 349.9       | 2.1                     | 2.1               |
| 5°           | 352.7                        | 353.3                       | 353.1                       | 353.3                       | 352.9                       | 352.0                       | 351.1       | 16.9                    | 18.9              |
| 10°          | 340.4                        | 339.5                       | 339.7                       | 341.6                       | 345.2                       | 345.5                       | 345.7       | 32.6                    | 51.5              |
| 15°          | 335.2                        | 334.1                       | 331.5                       | 331.4                       | 333.4                       | 336.4                       | 336.2       | 47.3                    | 98.9              |
| 20°          | 323.4                        | 322.7                       | 318.7                       | 319.6                       | 318.0                       | 320.3                       | 324.7       | 60.1                    | 159.0             |
| 25°          | 303.6                        | 304.4                       | 302.2                       | 302.2                       | 302.6                       | 302.3                       | 307.6       | 70.2                    | 229.2             |
| 30°          | 283.2                        | 283.0                       | 279.5                       | 280.9                       | 281.3                       | 280.3                       | 282.2       | 77.1                    | 306.3             |
| 35°          | 244.1                        | 243.6                       | 241.2                       | 242.6                       | 243.2                       | 242.2                       | 242.9       | 76.3                    | 382.6             |
| 40°          | 179.9                        | 179.6                       | 180.9                       | 182.1                       | 183.5                       | 183.3                       | 184.4       | 64.1                    | 446.7             |
| 45°          | 110.1                        | 109.9                       | 111.2                       | 112.6                       | 113.8                       | 115.2                       | 117.5       | 43.7                    | 490.4             |
| 50°          | 51.7                         | 59.9                        | 67.3                        | 61.6                        | 55.5                        | 66.0                        | 73.6        | 26.1                    | 516.5             |
| 55°          | 21.0                         | 28.2                        | 26.7                        | 30.5                        | 23.0                        | 31.8                        | 29.6        | 12.4                    | 528.9             |
| 60°          | 14.1                         | 14.7                        | 15.5                        | 14.4                        | 14.4                        | 15.4                        | 16.1        | 7.1                     | 536.0             |
| 65°          | 11.6                         | 11.5                        | 12.0                        | 11.7                        | 12.2                        | 12.2                        | 12.1        | 5.9                     | 541.9             |
| 70°          | 8.4                          | 8.6                         | 8.9                         | 8.9                         | 9.1                         | 9.2                         | 9.2         | 4.6                     | 546.5             |
| 75°          | 5.8                          | 6.1                         | 6.7                         | 6.4                         | 6.5                         | 6.9                         | 6.6         | 3.4                     | 549.9             |
| 80°          | 3.5                          | 3.8                         | 4.1                         | 4.5                         | 4.2                         | 4.7                         | 4.7         | 2.3                     | 552.2             |
| 85°          | 1.8                          | 1.8                         | 1.8                         | 2.1                         | 2.2                         | 2.5                         | 2.7         | 1.2                     | 553.3             |
| 90°          | 5.2                          | 5.0                         | 5.3                         | 5.2                         | 3.1                         | 1.1                         | 0.4         | 2.0                     | 555.4             |
| 95°          | 23.9                         | 24.4                        | 26.2                        | 24.8                        | 15.9                        | 8.2                         | 4.2         | 10.3                    | 565.7             |
| 100°         | 42.8                         | 43.9                        | 44.3                        | 38.8                        | 26.0                        | 14.7                        | 9.7         | 17.5                    | 583.2             |
| 105°         | 61.3                         | 62.6                        | 61.4                        | 52.4                        | 35.9                        | 22.2                        | 16.3        | 24.1                    | 607.3             |
| 110°         | 82.4                         | 82.7                        | 77.5                        | 64.5                        | 46.0                        | 30.0                        | 23.3        | 30.4                    | 637.7             |
| 115°         | 100.7                        | 99.8                        | 92.0                        | 75.7                        | 55.8                        | 37.9                        | 31.1        | 35.4                    | 673.0             |
| 120°         | 115.9                        | 114.0                       | 103.9                       | 84.8                        | 64.9                        | 45.6                        | 38.7        | 38.8                    | 711.8             |
| 125°         | 125.7                        | 122.3                       | 111.1                       | 93.1                        | 72.6                        | 52.9                        | 46.8        | 40.3                    | 752.1             |
| 130°         | 129.2                        | 126.3                       | 114.5                       | 98.0                        | 78.5                        | 60.4                        | 54.8        | 39.9                    | 792.0             |
| 135°         | 129.0                        | 126.3                       | 115.8                       | 101.3                       | 83.2                        | 67.4                        | 62.9        | 38.1                    | 830.1             |
| 140°         | 126.9                        | 124.9                       | 116.2                       | 103.6                       | 87.1                        | 74.0                        | 71.4        | 35.5                    | 865.6             |
| 145°         | 124.8                        | 123.4                       | 116.1                       | 105.0                       | 90.7                        | 80.2                        | 78.2        | 32.3                    | 897.9             |
| 150°         | 121.9                        | 121.3                       | 114.8                       | 104.9                       | 93.7                        | 86.1                        | 84.5        | 28.5                    | 926.4             |
| 155°         | 118.5                        | 118.2                       | 111.9                       | 104.4                       | 96.0                        | 91.3                        | 90.1        | 24.2                    | 950.6             |
| 160°         | 113.8                        | 113.5                       | 108.5                       | 103.6                       | 98.0                        | 95.4                        | 95.1        | 19.5                    | 970.1             |
| 165°         | 108.8                        | 108.2                       | 105.6                       | 102.3                       | 100.0                       | 98.6                        | 98.8        | 14.6                    | 984.7             |
| 170°         | 105.0                        | 104.5                       | 103.8                       | 102.4                       | 101.4                       | 101.2                       | 101.3       | 9.8                     | 994.5             |
| 175°         | 102.8                        | 102.7                       | 102.1                       | 101.9                       | 102.0                       | 102.0                       | 102.0       | 4.9                     | 999.4             |
| 180°         | 102.2                        | 102.2                       | 102.2                       | 102.2                       | 102.2                       | 102.2                       | 102.2       | 0.6                     | 1000.0            |

Photometric test report

|                              |     |                                                  |      |      |      |      |                    |      |                        |      |
|------------------------------|-----|--------------------------------------------------|------|------|------|------|--------------------|------|------------------------|------|
| Family<br>Silica® 21         |     | Order number: 51MX33DB39SB<br>EAN: 4058352889015 |      |      |      |      |                    |      | LP number<br>59331_100 |      |
| 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  | 15.4                                             | 16.3 | 16.3 | 17.2 | 18.3 | 15.6               | 16.5 | 16.5                   | 17.4 |
|                              | 3H  | 15.3                                             | 16.1 | 16.2 | 17.0 | 18.1 | 15.6               | 16.3 | 16.5                   | 17.2 |
|                              | 4H  | 15.3                                             | 16.0 | 16.2 | 16.9 | 18.1 | 15.6               | 16.3 | 16.5                   | 17.2 |
|                              | 6H  | 15.2                                             | 15.8 | 16.1 | 16.8 | 18.0 | 15.5               | 16.2 | 16.5                   | 17.1 |
|                              | 8H  | 15.1                                             | 15.7 | 16.1 | 16.7 | 17.9 | 15.4               | 16.0 | 16.4                   | 17.0 |
|                              | 12H | 15.0                                             | 15.6 | 16.0 | 16.5 | 17.8 | 15.5               | 16.0 | 16.4                   | 16.9 |
| 4H                           | 2H  | 15.2                                             | 15.9 | 16.1 | 16.8 | 17.9 | 15.3               | 16.0 | 16.2                   | 16.9 |
|                              | 3H  | 15.2                                             | 15.7 | 16.1 | 16.7 | 17.9 | 15.4               | 15.9 | 16.3                   | 16.9 |
|                              | 4H  | 15.2                                             | 15.7 | 16.1 | 16.6 | 17.9 | 15.4               | 15.9 | 16.4                   | 16.9 |
|                              | 6H  | 15.2                                             | 15.6 | 16.1 | 16.6 | 17.8 | 15.5               | 15.9 | 16.4                   | 16.9 |
|                              | 8H  | 15.1                                             | 15.5 | 16.1 | 16.5 | 17.8 | 15.5               | 15.9 | 16.5                   | 16.9 |
|                              | 12H | 15.0                                             | 15.4 | 16.1 | 16.4 | 17.7 | 15.5               | 15.8 | 16.5                   | 16.8 |
| 8H                           | 4H  | 15.0                                             | 15.4 | 16.0 | 16.4 | 17.7 | 15.2               | 15.6 | 16.2                   | 16.6 |
|                              | 6H  | 15.1                                             | 15.5 | 16.1 | 16.5 | 17.7 | 15.4               | 15.7 | 16.4                   | 16.7 |
|                              | 8H  | 15.1                                             | 15.4 | 16.1 | 16.4 | 17.7 | 15.5               | 15.8 | 16.5                   | 16.8 |
|                              | 12H | 15.1                                             | 15.3 | 16.1 | 16.3 | 17.7 | 15.5               | 15.8 | 16.6                   | 16.8 |
| 12H                          | 4H  | 15.0                                             | 15.3 | 16.0 | 16.3 | 17.6 | 15.1               | 15.5 | 16.2                   | 16.5 |
|                              | 6H  | 15.1                                             | 15.3 | 16.1 | 16.3 | 17.6 | 15.3               | 15.6 | 16.3                   | 16.6 |
|                              | 8H  | 15.1                                             | 15.3 | 16.1 | 16.3 | 17.7 | 15.4               | 15.7 | 16.4                   | 16.7 |

|                          |          |                                 |                             |                               |                             |                             |                             |
|--------------------------|----------|---------------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|
| Luminance table          |          | Max. for $\gamma \geq 65^\circ$ |                             | Photometric dimensions in mm: |                             | L = 1500<br>B = 50          |                             |
| C-planes                 | $\gamma$ | 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° |
|                          |          |                                 | Luminance in cd/m²          |                               |                             |                             |                             |
| 45°<br>50°<br>55°<br>60° | $\gamma$ | 15342.7                         | 15309.5                     | 15501.5                       | 15684.2                     | 15853.9                     | 16056.6                     |
|                          |          | 7923.4                          | 9179.4                      | 10322.9                       | 9447.5                      | 8514.1                      | 10111.8                     |
|                          |          | 3602.6                          | 4852.8                      | 4584.0                        | 5236.6                      | 3955.1                      | 5461.3                      |
|                          |          | 2788.1                          | 2893.3                      | 3058.5                        | 2835.0                      | 2845.4                      | 3026.2                      |
| 65°<br>70°<br>75°<br>80° | $\gamma$ | 2708.7                          | 2687.5                      | 2795.5                        | 2726.9                      | 2842.6                      | 2838.4                      |
|                          |          | 2423.4                          | 2468.7                      | 2568.6                        | 2568.6                      | 2609.0                      | 2638.9                      |
|                          |          | 2225.2                          | 2309.7                      | 2545.4                        | 2430.8                      | 2486.8                      | 2613.9                      |
|                          |          | 2009.8                          | 2129.0                      | 2348.0                        | 2555.7                      | 2370.7                      | 2644.8                      |
| 85°                      | $\gamma$ | 1985.2                          | 1997.7                      | 2073.4                        | 2396.8                      | 2520.0                      | 2873.8                      |

Photometric test report

Family  
Silica® 21

Order number: 51MX33DB39SB  
EAN: 4058352889015

LP number  
59331\_100

Luminance values in cd/m²

γ 65°

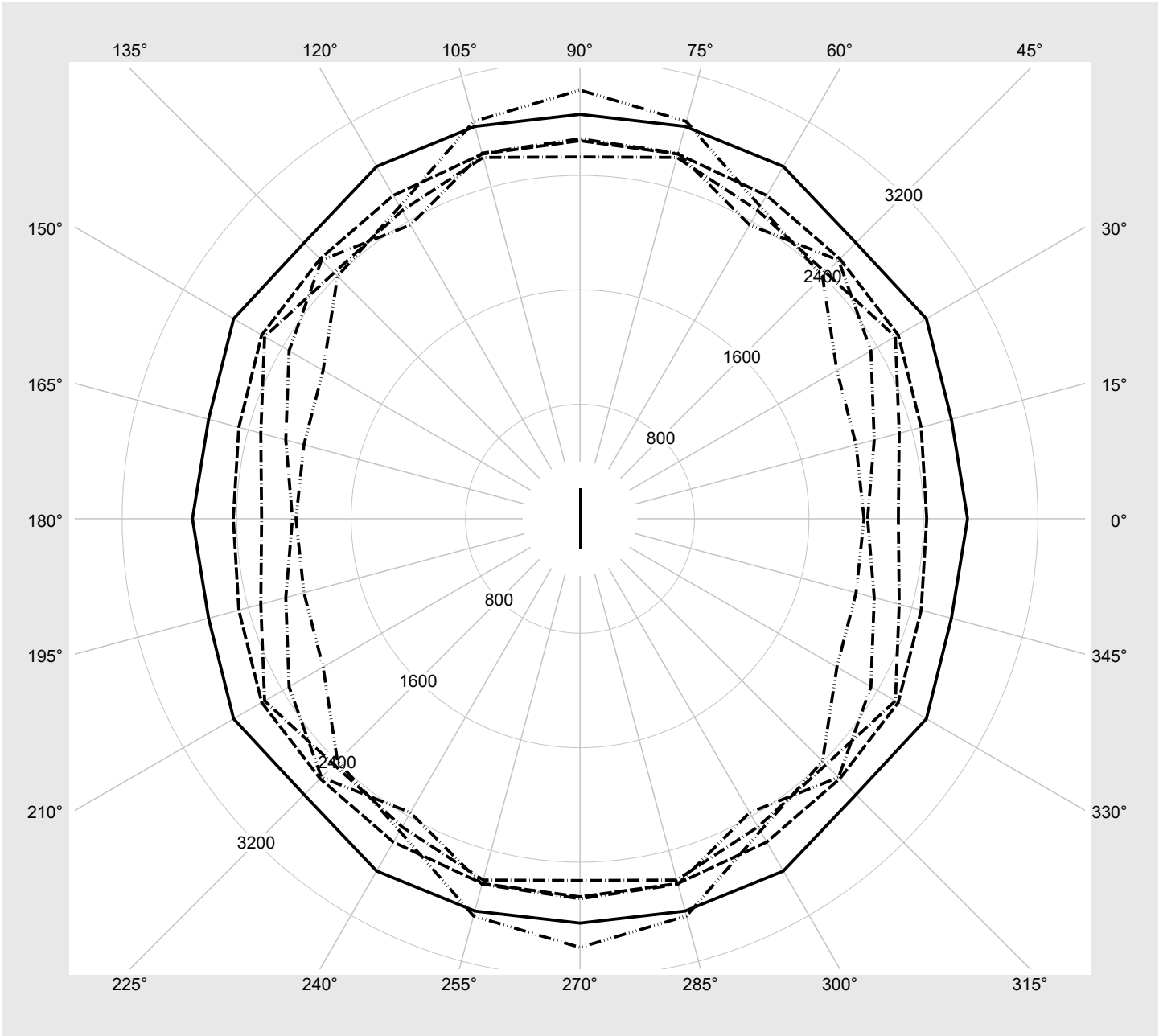
γ 70°

γ 75°

γ 80°

γ 85°

siteco



Photometric test report

|                      |                                                  |                                 |
|----------------------|--------------------------------------------------|---------------------------------|
| Family<br>Silica® 21 | Order number: 51MX33DB39SB<br>EAN: 4058352889015 | LP number<br>59331_100          |
| 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                          | 7390                  | 51.6                     |
| 95                 | 241                     | 252                          | 7031                  | 49.0                     |
| 90                 | 227                     | 250                          | 6642                  | 46.2                     |
| 85                 | 214                     | 248                          | 6278                  | 43.7                     |
| 80                 | 201                     | 245                          | 5913                  | 41.1                     |
| 75                 | 188                     | 243                          | 5545                  | 38.6                     |
| 70                 | 175                     | 240                          | 5175                  | 36.0                     |
| 65                 | 162                     | 238                          | 4802                  | 33.5                     |
| 60                 | 149                     | 234                          | 4428                  | 30.9                     |
| 55                 | 136                     | 231                          | 4050                  | 28.4                     |
| 50                 | 124                     | 228                          | 3700                  | 26.1                     |
| 45                 | 111                     | 224                          | 3320                  | 23.5                     |
| 40                 | 99                      | 219                          | 2966                  | 21.2                     |
| 35                 | 86                      | 214                          | 2581                  | 18.7                     |
| 30                 | 74                      | 209                          | 2223                  | 16.4                     |
| 25                 | 61                      | 202                          | 1833                  | 13.8                     |
| 20                 | 49                      | 194                          | 1472                  | 11.5                     |
| 15                 | 37                      | 183                          | 1109                  | 9.2                      |
| 10                 | 25                      | 169                          | 746                   | 7.0                      |
| 5                  | 13                      | 145                          | 381                   | 4.9                      |
| 2                  | 6                       | 117                          | 167                   | 4.2                      |