

## Photometric test report

Family  
**Silica® 21**



Order number: **51MX30DA34WB**  
EAN: **4058352886519**

LP number  
**59413\_57**

serial  
documentation  
**02.08.2023**

**Version** Suspended luminaire, with homogeneous illumination, cover, opal, direct-/ indirect distribution, extremely wide distribution, UGR≤25

**Lamps** LED 3000 K | CRI ≥ 80

**Controlgear** ECG-DALI

**Rated values** Net luminous flux = 4210 lm  
Power consumption = 27.7 W  
Luminous efficacy = 152 lm/W

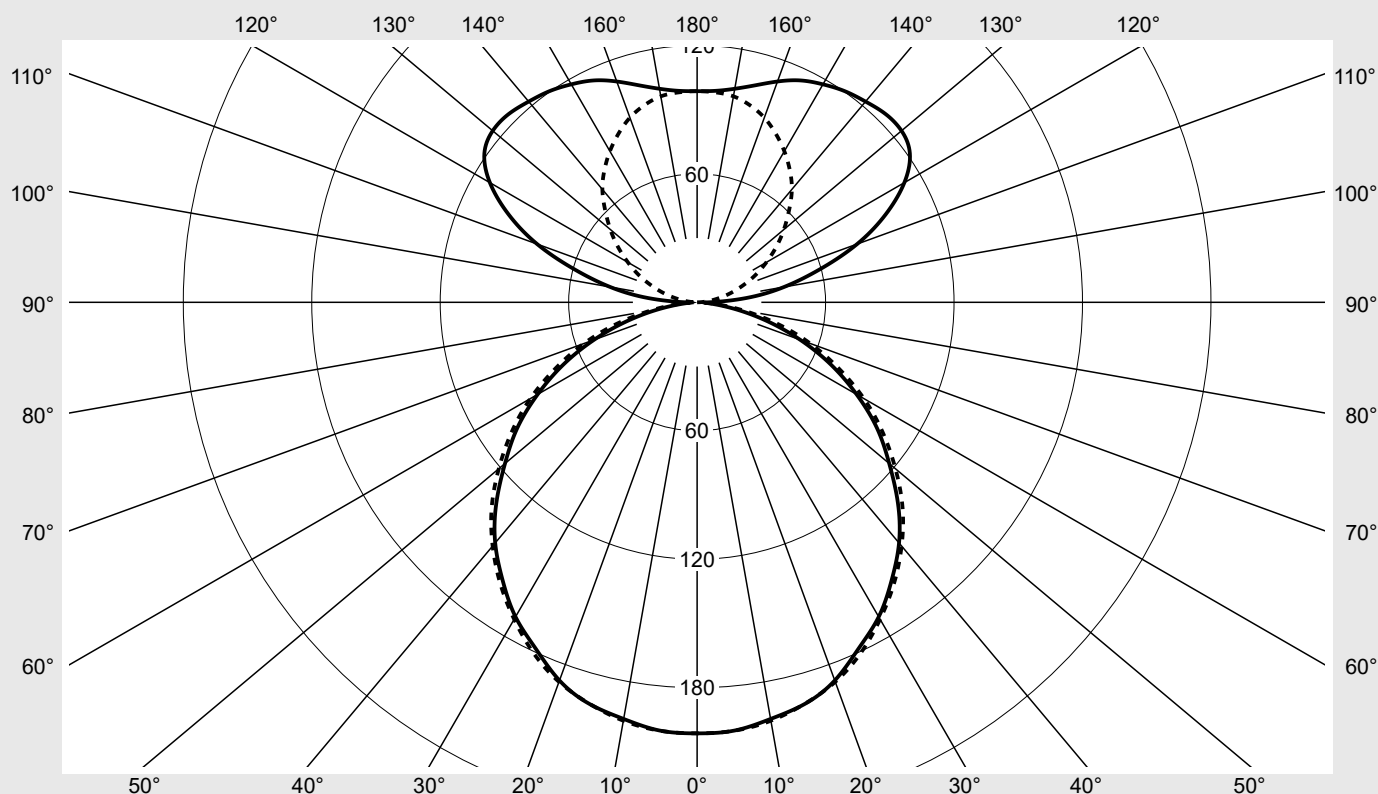
**siteco**

Luminous intensity in cd/klm

**C180-0**

**C270-90**

**Imax: 201 cd/klm**



### Classifications

DIN 5040 C 4 2  
CIE N1=47 N2=79 N3=96  
N4=57 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  57.0%  
 $\phi_o$  43.0%

### Measurement conditions

DIN EN 13032 and DIN 5032

Photometric test report

|                                          |                                                  |                            |
|------------------------------------------|--------------------------------------------------|----------------------------|
| Family<br>Silica® 21                     | Order number: 51MX30DA34WB<br>EAN: 4058352886519 | LP number<br>59413_57      |
| Table of values for luminous intensities |                                                  | Maximum luminous intensity |
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| 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°           | 201.3                        | 201.3                       | 201.3                       | 201.3                       | 201.3                       | 201.3                       | 201.3       | 1.2                     | 1.2               |
| 5°           | 200.8                        | 201.1                       | 200.5                       | 200.6                       | 200.7                       | 201.0                       | 200.8       | 9.6                     | 10.8              |
| 10°          | 197.6                        | 197.2                       | 197.1                       | 197.6                       | 198.5                       | 197.9                       | 198.4       | 18.8                    | 29.6              |
| 15°          | 194.2                        | 193.6                       | 192.5                       | 193.4                       | 194.0                       | 194.3                       | 194.2       | 27.5                    | 57.1              |
| 20°          | 188.0                        | 187.6                       | 186.2                       | 187.1                       | 187.3                       | 187.7                       | 188.7       | 35.1                    | 92.2              |
| 25°          | 178.4                        | 178.6                       | 177.9                       | 178.8                       | 179.9                       | 179.8                       | 180.8       | 41.5                    | 133.7             |
| 30°          | 169.6                        | 169.4                       | 168.2                       | 169.6                       | 170.9                       | 170.8                       | 170.9       | 46.6                    | 180.3             |
| 35°          | 158.4                        | 158.6                       | 157.6                       | 158.2                       | 158.8                       | 159.6                       | 160.3       | 49.9                    | 230.1             |
| 40°          | 146.7                        | 146.4                       | 146.5                       | 146.2                       | 147.1                       | 147.3                       | 148.6       | 51.7                    | 281.9             |
| 45°          | 132.6                        | 132.7                       | 133.0                       | 133.0                       | 133.6                       | 133.9                       | 135.7       | 51.7                    | 333.6             |
| 50°          | 117.1                        | 118.0                       | 118.4                       | 118.9                       | 120.0                       | 120.2                       | 120.9       | 50.0                    | 383.6             |
| 55°          | 102.6                        | 102.7                       | 103.4                       | 103.9                       | 104.8                       | 104.8                       | 105.8       | 46.7                    | 430.3             |
| 60°          | 86.0                         | 86.4                        | 86.9                        | 87.2                        | 88.6                        | 88.7                        | 90.0        | 41.6                    | 471.9             |
| 65°          | 69.1                         | 69.7                        | 70.6                        | 71.5                        | 72.2                        | 72.9                        | 72.9        | 35.4                    | 507.3             |
| 70°          | 51.3                         | 52.3                        | 52.8                        | 54.1                        | 55.2                        | 55.9                        | 56.2        | 27.8                    | 535.1             |
| 75°          | 33.8                         | 34.6                        | 35.2                        | 36.4                        | 37.6                        | 38.6                        | 38.9        | 19.3                    | 554.4             |
| 80°          | 17.8                         | 18.1                        | 18.7                        | 19.5                        | 20.7                        | 21.6                        | 21.9        | 10.7                    | 565.1             |
| 85°          | 5.8                          | 6.0                         | 6.3                         | 6.7                         | 7.3                         | 8.0                         | 8.2         | 3.8                     | 568.8             |
| 90°          | 5.3                          | 5.2                         | 5.5                         | 5.5                         | 3.6                         | 1.7                         | 1.1         | 2.3                     | 571.1             |
| 95°          | 23.1                         | 23.6                        | 25.3                        | 23.9                        | 15.3                        | 7.9                         | 4.1         | 10.0                    | 581.1             |
| 100°         | 41.3                         | 42.4                        | 42.7                        | 37.4                        | 25.1                        | 14.2                        | 9.3         | 16.8                    | 597.9             |
| 105°         | 59.2                         | 60.4                        | 59.2                        | 50.6                        | 34.6                        | 21.4                        | 15.7        | 23.3                    | 621.2             |
| 110°         | 79.5                         | 79.8                        | 74.8                        | 62.3                        | 44.4                        | 29.0                        | 22.5        | 29.3                    | 650.4             |
| 115°         | 97.2                         | 96.3                        | 88.8                        | 73.1                        | 53.8                        | 36.6                        | 30.0        | 34.1                    | 684.6             |
| 120°         | 111.8                        | 110.0                       | 100.3                       | 81.8                        | 62.6                        | 44.0                        | 37.3        | 37.4                    | 722.0             |
| 125°         | 121.3                        | 118.0                       | 107.2                       | 89.8                        | 70.0                        | 51.0                        | 45.1        | 38.9                    | 760.9             |
| 130°         | 124.6                        | 121.9                       | 110.5                       | 94.5                        | 75.7                        | 58.3                        | 52.9        | 38.5                    | 799.3             |
| 135°         | 124.4                        | 121.9                       | 111.7                       | 97.7                        | 80.2                        | 65.0                        | 60.7        | 36.8                    | 836.1             |
| 140°         | 122.4                        | 120.5                       | 112.1                       | 100.0                       | 84.0                        | 71.4                        | 68.8        | 34.3                    | 870.4             |
| 145°         | 120.4                        | 119.1                       | 112.0                       | 101.3                       | 87.5                        | 77.3                        | 75.5        | 31.2                    | 901.5             |
| 150°         | 117.6                        | 117.1                       | 110.8                       | 101.2                       | 90.4                        | 83.0                        | 81.5        | 27.5                    | 929.0             |
| 155°         | 114.3                        | 114.0                       | 108.0                       | 100.7                       | 92.6                        | 88.1                        | 86.9        | 23.3                    | 952.4             |
| 160°         | 109.8                        | 109.5                       | 104.7                       | 99.9                        | 94.6                        | 92.0                        | 91.8        | 18.8                    | 971.2             |
| 165°         | 104.9                        | 104.4                       | 101.9                       | 98.7                        | 96.5                        | 95.2                        | 95.3        | 14.1                    | 985.3             |
| 170°         | 101.3                        | 100.8                       | 100.1                       | 98.8                        | 97.8                        | 97.7                        | 97.7        | 9.4                     | 994.7             |
| 175°         | 99.2                         | 99.0                        | 98.5                        | 98.3                        | 98.4                        | 98.4                        | 98.4        | 4.7                     | 999.4             |
| 180°         | 98.6                         | 98.6                        | 98.6                        | 98.6                        | 98.6                        | 98.6                        | 98.6        | 0.6                     | 1000.0            |

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|                      |                                                  |                       |
|----------------------|--------------------------------------------------|-----------------------|
| Family<br>Silica® 21 | Order number: 51MX30DA34WB<br>EAN: 4058352886519 | LP number<br>59413_57 |
| 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  | 18.5                | 19.5 | 19.3 | 20.4 | 21.5 | 18.7               | 19.7 | 19.5 | 20.5 | 21.6 |
|                              | 3H  | 19.9                | 20.8 | 20.7 | 21.7 | 22.8 | 20.2               | 21.1 | 21.0 | 22.0 | 23.1 |
|                              | 4H  | 20.4                | 21.2 | 21.2 | 22.1 | 23.2 | 20.8               | 21.6 | 21.6 | 22.5 | 23.6 |
|                              | 6H  | 20.6                | 21.4 | 21.5 | 22.3 | 23.4 | 21.1               | 21.9 | 22.0 | 22.8 | 24.0 |
|                              | 8H  | 20.6                | 21.3 | 21.5 | 22.3 | 23.4 | 21.1               | 21.8 | 22.0 | 22.8 | 23.9 |
|                              | 12H | 20.6                | 21.2 | 21.5 | 22.2 | 23.4 | 21.2               | 21.9 | 22.1 | 22.8 | 24.0 |
| 4H                           | 2H  | 19.1                | 20.0 | 20.0 | 20.8 | 22.0 | 19.2               | 20.0 | 20.0 | 20.9 | 22.0 |
|                              | 3H  | 20.7                | 21.4 | 21.6 | 22.3 | 23.5 | 20.9               | 21.6 | 21.8 | 22.5 | 23.7 |
|                              | 4H  | 21.2                | 21.9 | 22.2 | 22.8 | 24.0 | 21.6               | 22.2 | 22.5 | 23.2 | 24.3 |
|                              | 6H  | 21.6                | 22.1 | 22.5 | 23.1 | 24.3 | 22.0               | 22.6 | 23.0 | 23.5 | 24.7 |
|                              | 8H  | 21.6                | 22.1 | 22.6 | 23.1 | 24.3 | 22.2               | 22.7 | 23.1 | 23.6 | 24.8 |
|                              | 12H | 21.6                | 22.0 | 22.6 | 23.0 | 24.3 | 22.2               | 22.6 | 23.1 | 23.6 | 24.8 |
| 8H                           | 4H  | 21.4                | 21.9 | 22.4 | 22.9 | 24.1 | 21.7               | 22.2 | 22.6 | 23.2 | 24.4 |
|                              | 6H  | 21.9                | 22.3 | 22.8 | 23.3 | 24.5 | 22.3               | 22.7 | 23.2 | 23.6 | 24.9 |
|                              | 8H  | 22.0                | 22.4 | 23.0 | 23.3 | 24.6 | 22.5               | 22.8 | 23.5 | 23.8 | 25.1 |
|                              | 12H | 22.0                | 22.3 | 23.0 | 23.3 | 24.6 | 22.6               | 22.9 | 23.6 | 23.9 | 25.2 |
| 12H                          | 4H  | 21.4                | 21.8 | 22.3 | 22.8 | 24.0 | 21.6               | 22.1 | 22.6 | 23.0 | 24.3 |
|                              | 6H  | 21.9                | 22.2 | 22.8 | 23.2 | 24.5 | 22.3               | 22.6 | 23.2 | 23.6 | 24.9 |
|                              | 8H  | 22.0                | 22.3 | 23.0 | 23.3 | 24.6 | 22.5               | 22.8 | 23.5 | 23.8 | 25.1 |

| 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°             | 13162.4            | 13170.4                         | 13195.2                     | 13196.9                       | 13255.4                     | 13290.5                     | 13466.7     |
| 50°             | 12786.7            | 12883.9                         | 12920.5                     | 12975.2                       | 13095.4                     | 13118.2                     | 13200.2     |
| 55°             | 12554.9            | 12568.9                         | 12644.5                     | 12707.5                       | 12824.5                     | 12825.5                     | 12942.7     |
| 60°             | 12072.2            | 12120.3                         | 12190.6                     | 12238.8                       | 12433.7                     | 12450.2                     | 12623.4     |
| 65°             | 11465.6            | 11580.3                         | 11713.8                     | 11869.5                       | 11982.9                     | 12103.3                     | 12102.6     |
| 70°             | 10523.8            | 10721.3                         | 10830.5                     | 11106.4                       | 11324.1                     | 11463.6                     | 11536.4     |
| 75°             | 9172.2             | 9389.4                          | 9541.5                      | 9871.4                        | 10204.3                     | 10469.2                     | 10539.1     |
| 80°             | 7177.6             | 7314.9                          | 7566.7                      | 7894.4                        | 8369.6                      | 8726.4                      | 8833.1      |
| 85°             | 4640.4             | 4794.2                          | 5051.0                      | 5423.8                        | 5910.0                      | 6406.8                      | 6635.4      |

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Family  
Silica® 21

Order number: 51MX30DA34WB  
EAN: 4058352886519

LP number  
59413\_57

Luminance values in cd/m²

γ 65°

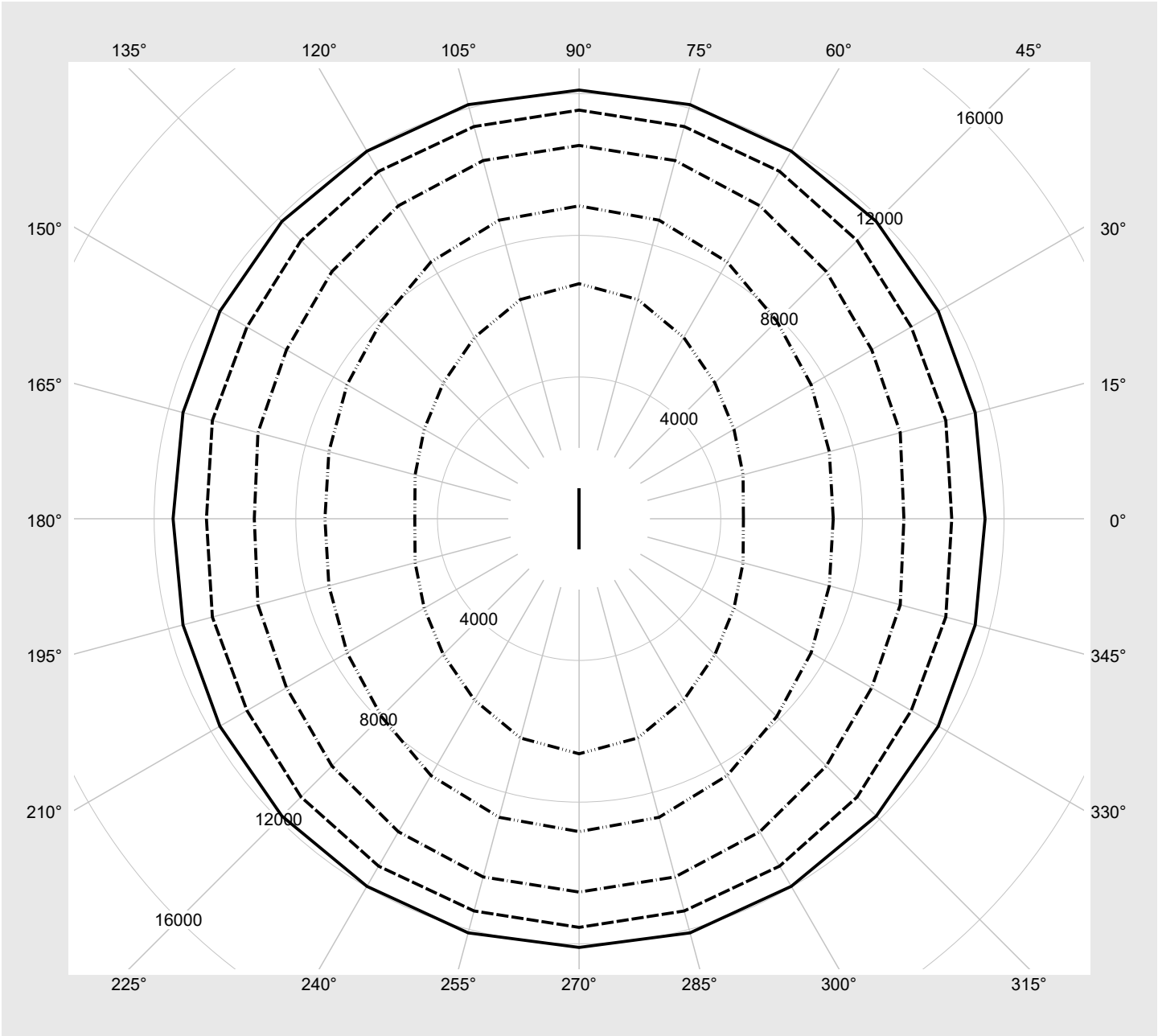
γ 70°

γ 75°

γ 80°

γ 85°

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|                      |                                                  |                                 |
|----------------------|--------------------------------------------------|---------------------------------|
| Family<br>Silica® 21 | Order number: 51MX30DA34WB<br>EAN: 4058352886519 | LP number<br>59413_57           |
| Dimming levels table |                                                  | environmental temperature: 25°C |

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| Luminous flux<br>% | Dimming level<br>linear | Dimming level<br>logarithmic | Luminous flux<br>[lm] | Power consumption<br>[W] |
|--------------------|-------------------------|------------------------------|-----------------------|--------------------------|
| 100                | 254                     | 254                          | 4210                  | 27.7                     |
| 95                 | 241                     | 252                          | 4001                  | 26.3                     |
| 90                 | 228                     | 250                          | 3792                  | 24.9                     |
| 85                 | 215                     | 248                          | 3581                  | 23.6                     |
| 80                 | 202                     | 246                          | 3370                  | 22.3                     |
| 75                 | 189                     | 243                          | 3158                  | 21.0                     |
| 70                 | 176                     | 241                          | 2945                  | 19.8                     |
| 65                 | 163                     | 238                          | 2731                  | 18.4                     |
| 60                 | 151                     | 235                          | 2533                  | 17.2                     |
| 55                 | 138                     | 232                          | 2318                  | 15.9                     |
| 50                 | 125                     | 228                          | 2102                  | 14.5                     |
| 45                 | 113                     | 224                          | 1901                  | 13.2                     |
| 40                 | 100                     | 220                          | 1683                  | 11.8                     |
| 35                 | 88                      | 215                          | 1481                  | 10.5                     |
| 30                 | 75                      | 209                          | 1263                  | 9.1                      |
| 25                 | 63                      | 203                          | 1059                  | 7.8                      |
| 20                 | 50                      | 194                          | 839                   | 6.5                      |
| 15                 | 38                      | 184                          | 635                   | 5.1                      |
| 10                 | 25                      | 169                          | 414                   | 3.6                      |
| 7                  | 19                      | 159                          | 311                   | 2.8                      |