

## Photometric test report

**Family**  
**Silica® 21 round L**

**Order number: 51MF23DCEMBA**  
**EAN: 4069025807113**

**LP number**  
**60072\_37**

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

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**Version**

surface-mounted luminaire, housing, black,  
microprismatic optics, direct wide distribution  
with ceiling illumination, UGR≤19

**Lamps**

LED 4000 K | CRI ≥ 90

**Controlgear**

ECG-DALI

**Rated values**

Net luminous flux = 13100 lm

Power consumption = 83.2 W

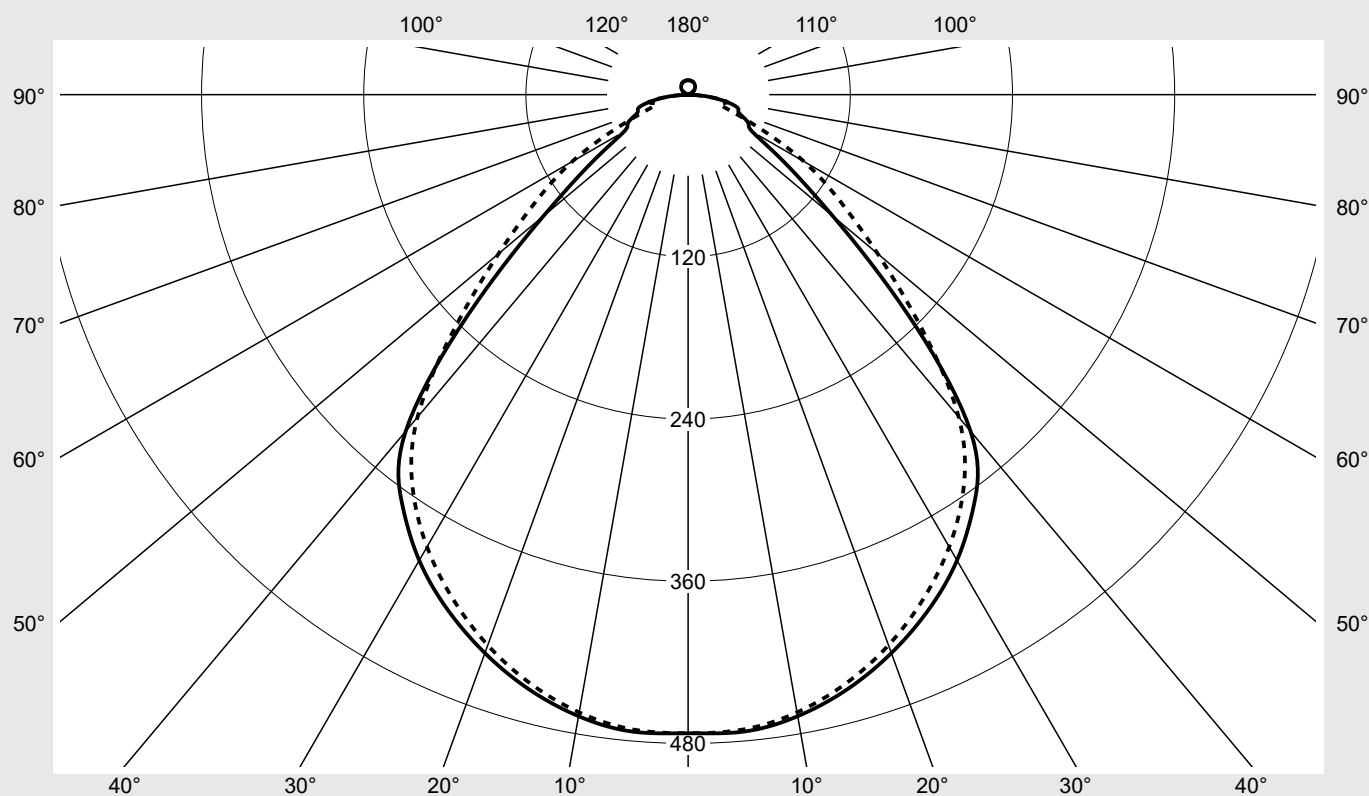
Luminous efficacy = 157.5 lm/W

**Luminous intensity in cd/klm**

**C180-0**

**C270-90**

**Imax: 473 cd/klm**



**Classifications**

DIN 5040 A 5 3  
CIE N1=64 N2=89 N3=97  
N4=97 N5=100

**Luminaire light output ratios**

$\eta_{LB}$  100.0%  
 $\phi_u$  97.2%  
 $\phi_o$  2.8%

**Measurement conditions**

DIN EN 13032 and DIN 5032

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|                                          |                                                  |                            |
|------------------------------------------|--------------------------------------------------|----------------------------|
| Family<br>Silica® 21 round L             | Order number: 51MF23DCEMBA<br>EAN: 4069025807113 | LP number<br>60072_37      |
| 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°           | 472.5                        | 472.5                       | 472.5                       | 472.5                       | 472.5                       | 472.5                       | 472.5       | 2.8                     | 2.8               |
| 5°           | 473.1                        | 470.6                       | 467.9                       | 469.6                       | 471.8                       | 471.5                       | 471.4       | 22.5                    | 25.3              |
| 10°          | 467.0                        | 464.4                       | 461.3                       | 462.6                       | 464.5                       | 464.1                       | 464.1       | 44.1                    | 69.4              |
| 15°          | 455.4                        | 452.9                       | 449.6                       | 450.4                       | 451.7                       | 451.2                       | 451.0       | 64.1                    | 133.5             |
| 20°          | 439.7                        | 437.1                       | 433.3                       | 433.5                       | 434.4                       | 433.7                       | 433.5       | 81.5                    | 215.0             |
| 25°          | 420.7                        | 417.7                       | 413.1                       | 412.9                       | 413.8                       | 412.5                       | 411.7       | 96.0                    | 311.0             |
| 30°          | 397.9                        | 394.4                       | 388.9                       | 388.6                       | 389.9                       | 387.9                       | 386.4       | 107.0                   | 418.0             |
| 35°          | 369.1                        | 365.7                       | 359.1                       | 359.5                       | 360.4                       | 358.3                       | 355.3       | 113.4                   | 531.4             |
| 40°          | 325.1                        | 325.2                       | 319.3                       | 318.9                       | 313.7                       | 315.1                       | 311.5       | 112.2                   | 643.6             |
| 45°          | 229.9                        | 244.7                       | 248.2                       | 243.4                       | 222.2                       | 243.0                       | 244.1       | 92.9                    | 736.5             |
| 50°          | 139.7                        | 160.3                       | 187.1                       | 160.2                       | 138.8                       | 157.7                       | 183.1       | 67.6                    | 804.1             |
| 55°          | 86.1                         | 98.4                        | 139.4                       | 97.9                        | 85.3                        | 95.8                        | 137.1       | 47.0                    | 851.1             |
| 60°          | 54.9                         | 66.5                        | 97.8                        | 67.2                        | 54.7                        | 65.6                        | 99.0        | 33.9                    | 885.0             |
| 65°          | 49.0                         | 56.8                        | 60.6                        | 58.2                        | 50.2                        | 58.3                        | 57.3        | 27.9                    | 913.0             |
| 70°          | 40.2                         | 49.0                        | 31.0                        | 49.9                        | 40.4                        | 50.0                        | 30.7        | 22.0                    | 934.9             |
| 75°          | 38.0                         | 34.2                        | 27.1                        | 34.9                        | 38.5                        | 34.7                        | 24.9        | 17.7                    | 952.6             |
| 80°          | 27.3                         | 20.6                        | 26.9                        | 20.0                        | 27.6                        | 21.0                        | 28.7        | 13.0                    | 965.6             |
| 85°          | 12.7                         | 11.9                        | 10.0                        | 11.9                        | 12.7                        | 12.2                        | 10.1        | 6.4                     | 972.0             |
| 90°          | 0.1                          | 0.1                         | 0.0                         | 0.1                         | 0.0                         | 0.1                         | 0.0         | 0.0                     | 972.0             |
| 95°          | 0.2                          | 0.2                         | 0.2                         | 0.2                         | 0.2                         | 0.2                         | 0.2         | 0.1                     | 972.2             |
| 100°         | 0.5                          | 0.5                         | 0.5                         | 0.5                         | 0.5                         | 0.5                         | 0.5         | 0.3                     | 972.5             |
| 105°         | 1.0                          | 1.0                         | 1.0                         | 1.0                         | 1.0                         | 1.0                         | 1.0         | 0.5                     | 973.0             |
| 110°         | 1.6                          | 1.6                         | 1.6                         | 1.6                         | 1.6                         | 1.6                         | 1.6         | 0.8                     | 973.8             |
| 115°         | 2.4                          | 2.4                         | 2.5                         | 2.5                         | 2.5                         | 2.5                         | 2.5         | 1.2                     | 975.0             |
| 120°         | 3.8                          | 3.7                         | 3.7                         | 3.7                         | 3.7                         | 3.7                         | 3.7         | 1.8                     | 976.8             |
| 125°         | 5.3                          | 5.3                         | 5.3                         | 5.3                         | 5.3                         | 5.3                         | 5.3         | 2.4                     | 979.2             |
| 130°         | 6.4                          | 6.4                         | 6.4                         | 6.4                         | 6.4                         | 6.4                         | 6.4         | 2.7                     | 981.9             |
| 135°         | 7.2                          | 7.2                         | 7.3                         | 7.3                         | 7.3                         | 7.3                         | 7.3         | 2.8                     | 984.7             |
| 140°         | 8.0                          | 8.0                         | 8.0                         | 8.1                         | 8.1                         | 8.0                         | 8.0         | 2.8                     | 987.5             |
| 145°         | 8.7                          | 8.7                         | 8.7                         | 8.7                         | 8.7                         | 8.7                         | 8.7         | 2.7                     | 990.2             |
| 150°         | 9.3                          | 9.3                         | 9.3                         | 9.3                         | 9.3                         | 9.3                         | 9.3         | 2.6                     | 992.8             |
| 155°         | 9.8                          | 9.8                         | 9.8                         | 9.8                         | 9.8                         | 9.8                         | 9.8         | 2.3                     | 995.1             |
| 160°         | 10.1                         | 10.1                        | 10.1                        | 10.1                        | 10.1                        | 10.1                        | 10.1        | 1.9                     | 997.0             |
| 165°         | 10.4                         | 10.4                        | 10.3                        | 10.4                        | 10.4                        | 10.3                        | 10.4        | 1.5                     | 998.4             |
| 170°         | 10.6                         | 10.6                        | 10.6                        | 10.5                        | 10.5                        | 10.5                        | 10.5        | 1.0                     | 999.4             |
| 175°         | 10.6                         | 10.6                        | 10.6                        | 10.6                        | 10.6                        | 10.6                        | 10.6        | 0.5                     | 999.9             |
| 180°         | 10.6                         | 10.6                        | 10.6                        | 10.6                        | 10.6                        | 10.6                        | 10.6        | 0.1                     | 1000.0            |

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|                              |     |                                                  |      |      |      |      |                    |      |                       |      |
|------------------------------|-----|--------------------------------------------------|------|------|------|------|--------------------|------|-----------------------|------|
| Family<br>Silica® 21 round L |     | Order number: 51MF23DCEMBA<br>EAN: 4069025807113 |      |      |      |      |                    |      | LP number<br>60072_37 |      |
| 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 |
|                              | 3H  | 17.6                                             | 19.0 | 18.0 | 19.3 | 19.7 | 17.5               | 18.8 | 17.9                  | 19.2 |
|                              | 4H  | 18.1                                             | 19.4 | 18.5 | 19.7 | 20.1 | 17.8               | 19.1 | 18.2                  | 19.4 |
|                              | 6H  | 18.6                                             | 19.7 | 19.0 | 20.1 | 20.5 | 18.3               | 19.4 | 18.7                  | 19.8 |
|                              | 8H  | 18.8                                             | 19.9 | 19.2 | 20.3 | 20.7 | 18.6               | 19.6 | 19.0                  | 20.0 |
|                              | 12H | 19.0                                             | 20.0 | 19.4 | 20.4 | 20.8 | 18.7               | 19.7 | 19.1                  | 20.1 |
| 4H                           | 2H  | 17.2                                             | 18.4 | 17.6 | 18.8 | 19.2 | 17.0               | 18.3 | 17.4                  | 18.7 |
|                              | 3H  | 18.0                                             | 19.1 | 18.4 | 19.5 | 19.9 | 18.0               | 19.1 | 18.4                  | 19.5 |
|                              | 4H  | 18.6                                             | 19.5 | 19.0 | 19.9 | 20.4 | 18.6               | 19.5 | 19.0                  | 19.9 |
|                              | 6H  | 19.2                                             | 20.0 | 19.6 | 20.4 | 20.9 | 19.1               | 20.0 | 19.6                  | 20.4 |
|                              | 8H  | 19.5                                             | 20.2 | 19.9 | 20.6 | 21.1 | 19.4               | 20.2 | 19.9                  | 20.6 |
|                              | 12H | 19.7                                             | 20.4 | 20.2 | 20.8 | 21.3 | 19.6               | 20.3 | 20.1                  | 20.7 |
| 8H                           | 4H  | 18.8                                             | 19.6 | 19.3 | 20.0 | 20.5 | 18.8               | 19.6 | 19.3                  | 20.0 |
|                              | 6H  | 19.6                                             | 20.2 | 20.1 | 20.7 | 21.2 | 19.6               | 20.2 | 20.1                  | 20.7 |
|                              | 8H  | 20.0                                             | 20.5 | 20.5 | 21.0 | 21.5 | 20.0               | 20.5 | 20.5                  | 21.0 |
|                              | 12H | 20.3                                             | 20.7 | 20.8 | 21.2 | 21.8 | 20.3               | 20.7 | 20.8                  | 21.2 |
| 12H                          | 4H  | 18.9                                             | 19.5 | 19.4 | 20.0 | 20.5 | 18.9               | 19.5 | 19.4                  | 20.0 |
|                              | 6H  | 19.7                                             | 20.2 | 20.2 | 20.7 | 21.2 | 19.7               | 20.2 | 20.2                  | 20.7 |
|                              | 8H  | 20.1                                             | 20.5 | 20.6 | 21.0 | 21.6 | 20.1               | 20.6 | 20.6                  | 21.1 |

| Luminance table |                    | Max. for $\gamma \geq 65^\circ$ |                             | Photometric dimensions in mm: |                             | D = 886                     |             |
|-----------------|--------------------|---------------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-------------|
| 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°             | 6908.3             | 7352.6                          | 7458.7                      | 7315.4                        | 6676.2                      | 7301.1                      | 7335.5      |
| 50°             | 4617.8             | 5297.6                          | 6185.4                      | 5294.5                        | 4587.2                      | 5213.6                      | 6051.3      |
| 55°             | 3189.6             | 3643.9                          | 5163.9                      | 3628.1                        | 3160.3                      | 3549.3                      | 5078.2      |
| 60°             | 2331.0             | 2824.1                          | 4158.1                      | 2855.2                        | 2323.9                      | 2787.1                      | 4207.1      |
| 65°             | 2461.4             | 2857.3                          | 3044.4                      | 2927.6                        | 2522.8                      | 2928.8                      | 2880.1      |
| 70°             | 2496.8             | 3043.8                          | 1928.2                      | 3100.7                        | 2510.8                      | 3106.7                      | 1904.7      |
| 75°             | 3118.6             | 2805.6                          | 2226.9                      | 2866.8                        | 3163.5                      | 2845.3                      | 2041.7      |
| 80°             | 3336.1             | 2526.0                          | 3296.5                      | 2453.1                        | 3374.6                      | 2574.5                      | 3517.0      |
| 85°             | 3102.5             | 2901.1                          | 2449.1                      | 2910.6                        | 3085.2                      | 2972.3                      | 2462.8      |

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Family  
Silica® 21 round L

Order number: 51MF23DCEMBA  
EAN: 4069025807113

LP number  
60072\_37

Luminance values in cd/m²

γ 65°

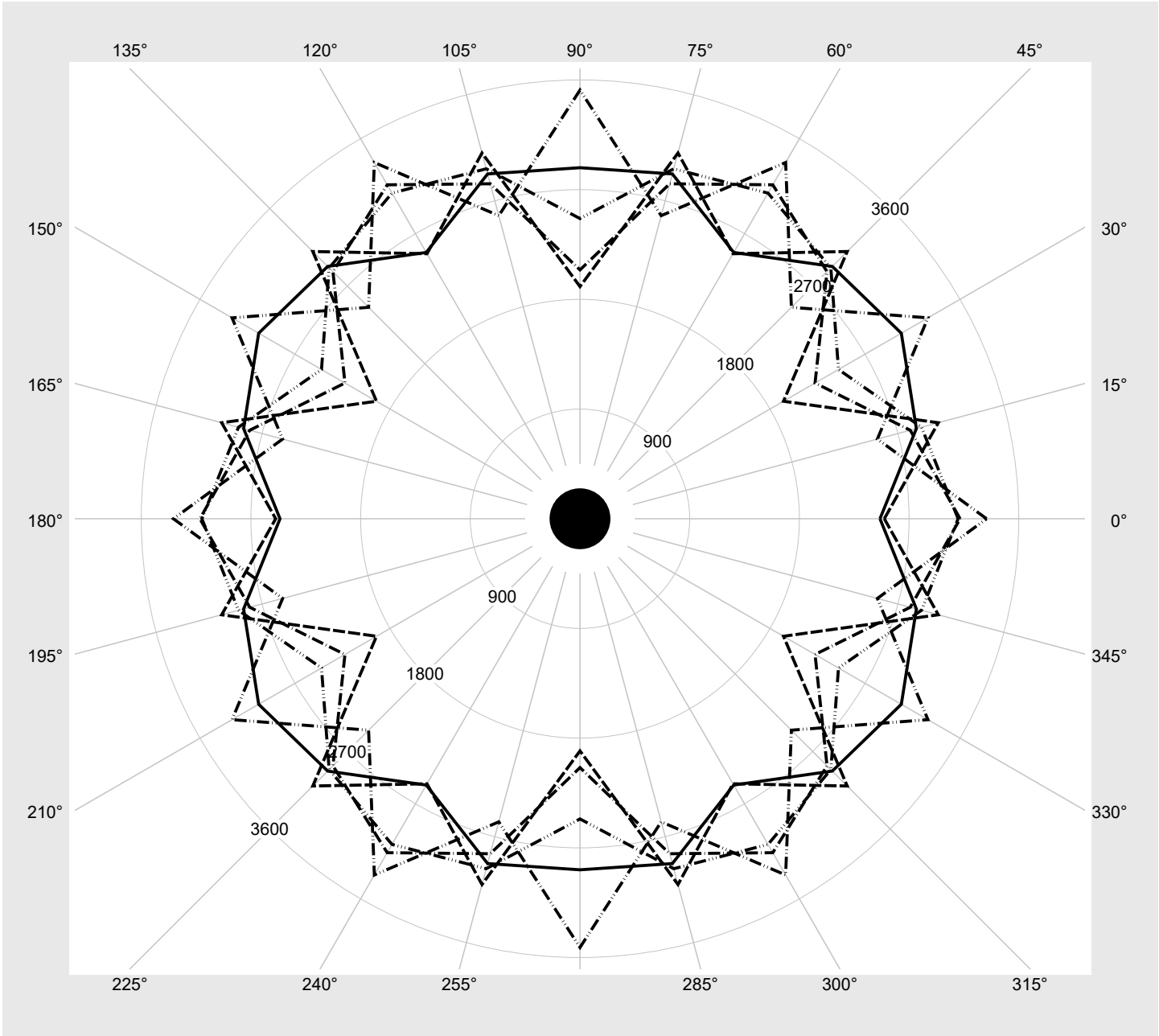
γ 70°

γ 75°

γ 80°

γ 85°

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|                                                                 |                                                  |                       |
|-----------------------------------------------------------------|--------------------------------------------------|-----------------------|
| Family<br>Silica® 21 round L                                    | Order number: 51MF23DCEMBA<br>EAN: 4069025807113 | LP number<br>60072_37 |
| Dimming levels table <div>environmental temperature: 25°C</div> |                                                  | <div>sit</div> eco    |

| Luminous flux [%] | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-------------------|----------------------|---------------------------|--------------------|-----------------------|
| 100               | 254                  | 254                       | 13100              | 83.2                  |
| 95                | 241                  | 252                       | 12461              | 78.9                  |
| 90                | 227                  | 250                       | 11768              | 74.3                  |
| 85                | 214                  | 248                       | 11122              | 70.0                  |
| 80                | 201                  | 245                       | 10470              | 65.8                  |
| 75                | 188                  | 243                       | 9816               | 61.5                  |
| 70                | 175                  | 240                       | 9158               | 57.4                  |
| 65                | 162                  | 238                       | 8495               | 53.1                  |
| 60                | 150                  | 235                       | 7882               | 49.3                  |
| 55                | 137                  | 231                       | 7214               | 45.1                  |
| 50                | 124                  | 228                       | 6543               | 41.0                  |
| 45                | 111                  | 224                       | 5870               | 36.8                  |
| 40                | 99                   | 219                       | 5246               | 33.1                  |
| 35                | 86                   | 214                       | 4565               | 29.0                  |
| 30                | 74                   | 209                       | 3934               | 25.3                  |
| 25                | 62                   | 202                       | 3298               | 21.6                  |
| 20                | 49                   | 194                       | 2608               | 17.6                  |
| 15                | 37                   | 183                       | 1968               | 14.1                  |
| 10                | 25                   | 169                       | 1324               | 10.5                  |
| 5                 | 13                   | 145                       | 678                | 6.8                   |
| 1                 | 3                    | 91                        | 138                | 3.5                   |