

## Photometric test report

**Family**  
Linear Office VEGA®

**Order number: 5MN238DLC003 + 5MN91402**  
**EAN: 4050737964164 + 4050737755007**

**LP number**  
**56403\_15**



**Version** suspended luminaire, prismatic light guide,  
direct-/ indirect distribution, 70% passpartout

**Lamps** 1 x LED 3000K / CRI ≥ 80  
(unbekannt LED 3000K / CRI = 80)

**Controlgear** ECG-DALI

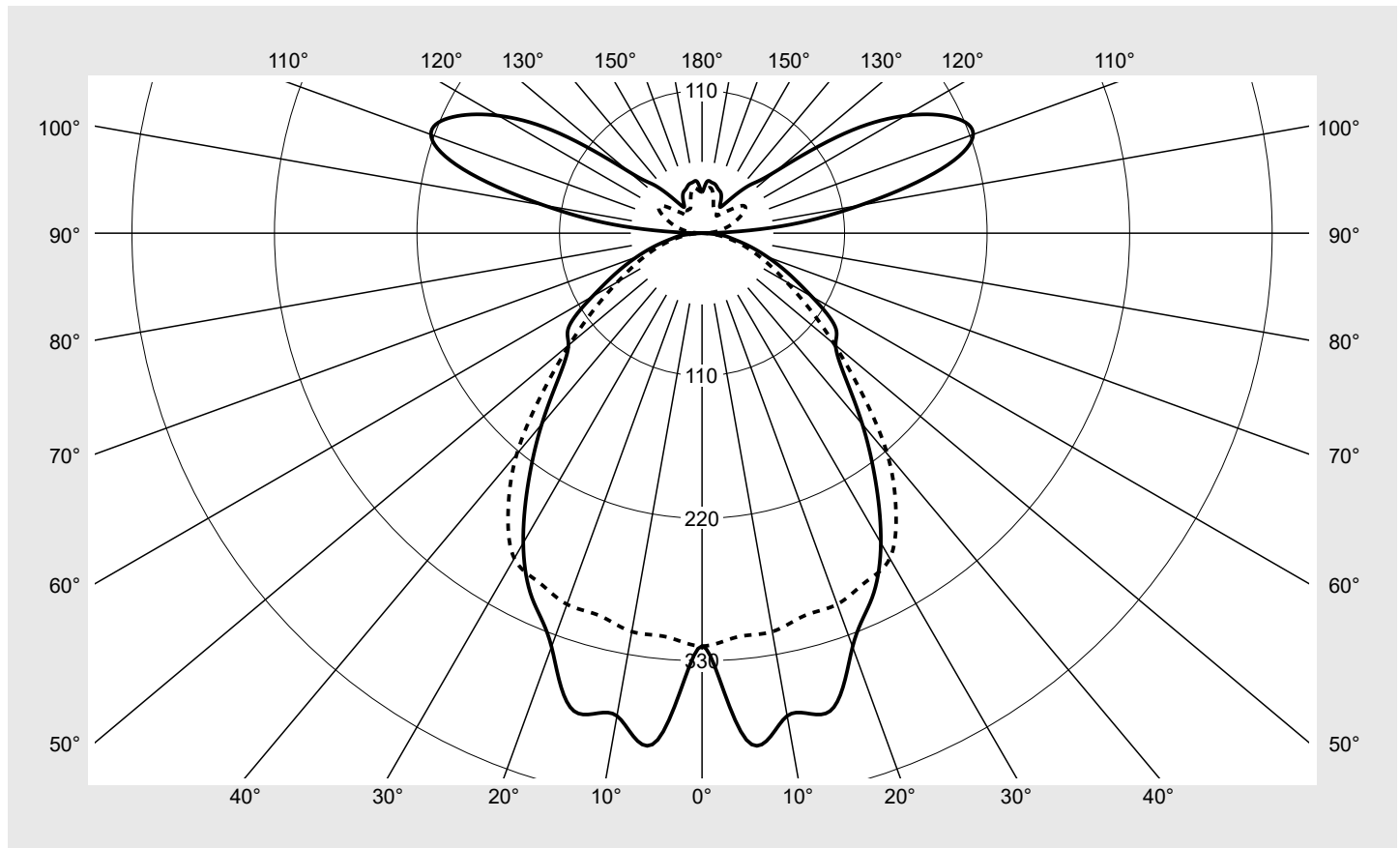
**Rated values** Net luminous flux = 4250 lm  
Power consumption = 35.0 W  
Luminous efficacy = 121.4 lm/W

**serial**  
**documentation**  
**23.10.2015**

**siteco**

**Luminous intensity in cd/klm** **C180-0** **C270-90**

**Imax: 401 cd/klm**



### Classifications

DIN 5040 B 5 1  
CIE N1=61 N2=86 N3=97  
N4=71 N5=100

### Luminaire light output ratios

$\eta_{LB}$  100.0%  
 $\phi_u$  71.0%  
 $\phi_o$  29.0%

### Measurement conditions

DIN EN 13032 and DIN 5032

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| <b>Table of values for luminous intensities</b> |   | <b>Maximum luminous intensity</b>   |



| C-planes<br>γ                | 0°<br>180° | 15°                  | 30°                  | 45°                  | 60°                  | 75°                  | 90°<br>270° | Phi-zone                | Total<br>Phi-zone |
|------------------------------|------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|-------------------------|-------------------|
|                              |            | 165°<br>195°<br>345° | 150°<br>210°<br>330° | 135°<br>225°<br>315° | 120°<br>240°<br>300° | 105°<br>255°<br>285° |             |                         |                   |
| Luminous intensity in cd/klm |            |                      |                      |                      |                      |                      |             | Luminous flux in lm/klm |                   |
| 0°                           | 318.7      | 318.7                | 318.7                | 318.7                | 318.7                | 318.7                | 318.7       | 1.9                     | 1.9               |
| 5°                           | 392.5      | 392.7                | 386.9                | 364.1                | 325.2                | 307.3                | 312.8       | 16.9                    | 18.9              |
| 10°                          | 378.3      | 373.0                | 368.0                | 380.2                | 400.7                | 354.0                | 312.2       | 35.2                    | 54.1              |
| 15°                          | 381.8      | 379.2                | 373.4                | 357.2                | 377.9                | 366.1                | 305.6       | 52.0                    | 106.0             |
| 20°                          | 339.7      | 336.6                | 335.5                | 336.4                | 339.1                | 368.9                | 304.8       | 63.7                    | 169.8             |
| 25°                          | 310.5      | 302.7                | 291.0                | 290.4                | 299.8                | 341.6                | 297.5       | 70.6                    | 240.4             |
| 30°                          | 276.0      | 265.3                | 255.9                | 243.2                | 241.7                | 299.7                | 289.8       | 72.6                    | 312.9             |
| 35°                          | 233.4      | 224.2                | 210.7                | 204.3                | 188.2                | 252.3                | 260.9       | 69.5                    | 382.5             |
| 40°                          | 192.5      | 183.2                | 173.3                | 163.4                | 147.5                | 199.6                | 222.4       | 63.1                    | 445.6             |
| 45°                          | 155.6      | 148.4                | 136.2                | 125.2                | 116.2                | 151.4                | 174.2       | 54.4                    | 500.0             |
| 50°                          | 134.6      | 129.3                | 111.6                | 98.2                 | 93.1                 | 116.8                | 133.2       | 47.8                    | 547.8             |
| 55°                          | 125.3      | 117.4                | 94.8                 | 76.4                 | 76.4                 | 93.3                 | 100.7       | 42.8                    | 590.5             |
| 60°                          | 97.7       | 94.1                 | 75.7                 | 59.2                 | 63.0                 | 75.6                 | 75.2        | 35.9                    | 626.5             |
| 65°                          | 73.6       | 71.7                 | 58.3                 | 45.9                 | 52.1                 | 61.4                 | 56.7        | 29.4                    | 655.8             |
| 70°                          | 53.7       | 51.4                 | 42.8                 | 34.2                 | 41.2                 | 47.5                 | 41.9        | 22.7                    | 678.6             |
| 75°                          | 36.7       | 34.6                 | 29.2                 | 23.9                 | 29.8                 | 34.0                 | 29.3        | 16.3                    | 694.8             |
| 80°                          | 23.1       | 21.1                 | 17.5                 | 14.8                 | 18.6                 | 20.5                 | 17.6        | 10.2                    | 705.0             |
| 85°                          | 11.7       | 10.5                 | 8.9                  | 7.6                  | 9.5                  | 9.6                  | 8.3         | 5.1                     | 710.1             |
| 90°                          | 0.0        | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0                  | 0.0         | 0.0                     | 710.1             |
| 95°                          | 60.9       | 46.5                 | 24.4                 | 9.7                  | 8.5                  | 8.7                  | 8.4         | 12.1                    | 722.2             |
| 100°                         | 123.9      | 92.6                 | 46.6                 | 18.8                 | 17.5                 | 17.1                 | 15.4        | 23.6                    | 745.7             |
| 105°                         | 191.1      | 139.2                | 72.9                 | 28.0                 | 25.4                 | 25.3                 | 21.8        | 35.0                    | 780.8             |
| 110°                         | 222.7      | 161.1                | 83.4                 | 34.0                 | 31.1                 | 31.7                 | 27.8        | 40.1                    | 820.8             |
| 115°                         | 212.2      | 164.7                | 81.3                 | 37.2                 | 35.6                 | 35.5                 | 34.0        | 39.5                    | 860.4             |
| 120°                         | 181.3      | 149.8                | 66.6                 | 38.0                 | 37.1                 | 36.2                 | 38.7        | 34.6                    | 895.0             |
| 125°                         | 134.1      | 94.1                 | 48.6                 | 38.4                 | 38.1                 | 37.0                 | 36.8        | 25.6                    | 920.6             |
| 130°                         | 74.1       | 59.9                 | 43.3                 | 38.4                 | 37.7                 | 34.6                 | 27.7        | 18.5                    | 939.1             |
| 135°                         | 52.9       | 48.2                 | 42.1                 | 37.4                 | 30.3                 | 27.0                 | 21.8        | 14.4                    | 953.4             |
| 140°                         | 35.1       | 33.0                 | 26.1                 | 21.9                 | 19.2                 | 19.6                 | 17.5        | 8.6                     | 962.0             |
| 145°                         | 24.6       | 25.9                 | 23.7                 | 22.9                 | 18.3                 | 20.5                 | 20.1        | 7.0                     | 969.0             |
| 150°                         | 29.1       | 29.9                 | 29.0                 | 26.6                 | 23.9                 | 24.9                 | 21.1        | 7.3                     | 976.3             |
| 155°                         | 34.3       | 34.0                 | 31.4                 | 27.4                 | 28.9                 | 29.4                 | 21.3        | 6.9                     | 983.2             |
| 160°                         | 36.3       | 33.8                 | 29.1                 | 30.8                 | 32.8                 | 33.1                 | 25.6        | 6.0                     | 989.2             |
| 165°                         | 39.0       | 37.6                 | 36.2                 | 36.1                 | 36.6                 | 36.2                 | 32.3        | 5.2                     | 994.3             |
| 170°                         | 40.0       | 39.5                 | 38.9                 | 39.0                 | 39.3                 | 37.1                 | 35.6        | 3.7                     | 998.0             |
| 175°                         | 39.4       | 39.3                 | 38.7                 | 37.5                 | 35.5                 | 33.9                 | 33.4        | 1.8                     | 999.8             |
| 180°                         | 31.8       | 31.8                 | 31.8                 | 31.8                 | 31.8                 | 31.8                 | 31.8        | 0.2                     | 1000.0            |

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|-------------------------------|---|-----------------------|

| UGR-Table                    |     | Standard room       |      |      |      |      |                    |      |      |      |      |
|------------------------------|-----|---------------------|------|------|------|------|--------------------|------|------|------|------|
| 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  | 12.6                | 13.7 | 13.2 | 14.4 | 15.2 | 11.6               | 12.8 | 12.3 | 13.5 | 14.3 |
|                              | 3H  | 13.8                | 14.8 | 14.5 | 15.5 | 16.4 | 12.9               | 13.9 | 13.6 | 14.6 | 15.5 |
|                              | 4H  | 14.3                | 15.2 | 15.0 | 15.9 | 16.8 | 13.4               | 14.4 | 14.1 | 15.1 | 16.0 |
|                              | 6H  | 14.7                | 15.5 | 15.5 | 16.3 | 17.2 | 13.9               | 14.7 | 14.6 | 15.5 | 16.3 |
|                              | 8H  | 14.8                | 15.5 | 15.5 | 16.3 | 17.3 | 13.9               | 14.6 | 14.6 | 15.4 | 16.3 |
|                              | 12H | 14.9                | 15.6 | 15.7 | 16.4 | 17.3 | 14.0               | 14.7 | 14.8 | 15.5 | 16.4 |
| 4H                           | 2H  | 12.7                | 13.6 | 13.4 | 14.4 | 15.2 | 11.8               | 12.7 | 12.5 | 13.5 | 14.4 |
|                              | 3H  | 14.2                | 14.9 | 14.9 | 15.7 | 16.6 | 13.3               | 14.1 | 14.1 | 14.8 | 15.8 |
|                              | 4H  | 14.7                | 15.4 | 15.5 | 16.2 | 17.2 | 14.0               | 14.7 | 14.7 | 15.5 | 16.4 |
|                              | 6H  | 15.3                | 15.9 | 16.1 | 16.7 | 17.7 | 14.6               | 15.2 | 15.4 | 16.0 | 16.9 |
|                              | 8H  | 15.4                | 15.9 | 16.2 | 16.8 | 17.8 | 14.7               | 15.2 | 15.5 | 16.0 | 17.0 |
|                              | 12H | 15.6                | 16.1 | 16.4 | 16.9 | 17.9 | 14.8               | 15.3 | 15.7 | 16.1 | 17.2 |
| 8H                           | 4H  | 14.8                | 15.3 | 15.6 | 16.1 | 17.1 | 14.0               | 14.5 | 14.8 | 15.4 | 16.4 |
|                              | 6H  | 15.4                | 15.8 | 16.2 | 16.7 | 17.7 | 14.6               | 15.1 | 15.5 | 15.9 | 17.0 |
|                              | 8H  | 15.6                | 16.0 | 16.5 | 16.9 | 17.9 | 15.0               | 15.3 | 15.8 | 16.2 | 17.3 |
|                              | 12H | 15.9                | 16.2 | 16.8 | 17.1 | 18.2 | 15.2               | 15.6 | 16.1 | 16.4 | 17.5 |
| 12H                          | 4H  | 14.8                | 15.3 | 15.6 | 16.1 | 17.1 | 14.0               | 14.5 | 14.9 | 15.3 | 16.4 |
|                              | 6H  | 15.4                | 15.8 | 16.3 | 16.6 | 17.7 | 14.7               | 15.1 | 15.6 | 16.0 | 17.0 |
|                              | 8H  | 15.7                | 16.0 | 16.6 | 16.9 | 18.0 | 15.1               | 15.4 | 15.9 | 16.2 | 17.3 |

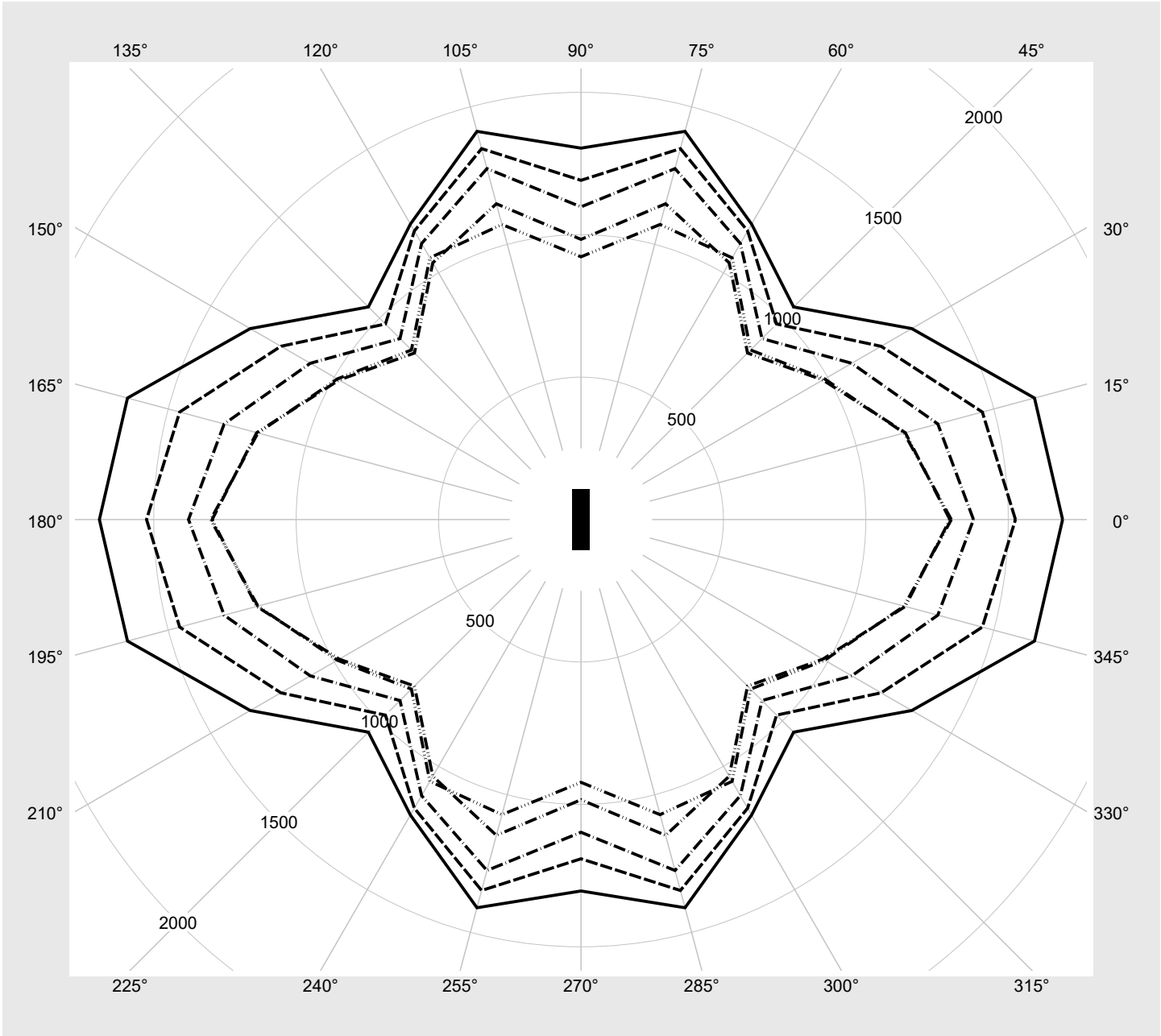
| Luminance table |          | Max. for $\gamma \geq 65^\circ$ |                             | Photometric dimensions in mm: |                             | L = 1250<br>B = 350         |                             |             |
|-----------------|----------|---------------------------------|-----------------------------|-------------------------------|-----------------------------|-----------------------------|-----------------------------|-------------|
| C-planes        | $\gamma$ | Luminance in cd/m <sup>2</sup>  |                             |                               |                             |                             |                             |             |
|                 |          | 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° |
| 45°             |          | 2137.4                          | 2038.4                      | 1871.8                        | 1720.5                      | 1597.0                      | 2079.9                      | 2393.7      |
| 50°             |          | 2034.3                          | 1954.3                      | 1687.1                        | 1483.6                      | 1407.7                      | 1765.0                      | 2012.7      |
| 55°             |          | 2121.4                          | 1987.8                      | 1605.7                        | 1294.2                      | 1293.7                      | 1580.3                      | 1705.5      |
| 60°             |          | 1898.5                          | 1828.9                      | 1470.3                        | 1150.3                      | 1224.5                      | 1468.2                      | 1460.9      |
| 65°             |          | 1690.8                          | 1648.3                      | 1340.9                        | 1055.6                      | 1197.8                      | 1411.0                      | 1304.0      |
| 70°             |          | 1525.3                          | 1458.6                      | 1216.6                        | 971.0                       | 1170.0                      | 1348.2                      | 1191.1      |
| 75°             |          | 1377.9                          | 1296.9                      | 1097.5                        | 898.6                       | 1119.2                      | 1275.5                      | 1097.9      |
| 80°             |          | 1295.0                          | 1178.6                      | 980.2                         | 826.8                       | 1040.7                      | 1147.8                      | 983.7       |
| 85°             |          | 1300.2                          | 1174.2                      | 987.6                         | 842.0                       | 1061.2                      | 1072.6                      | 922.5       |

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|                                      |   |                              |
|--------------------------------------|---|------------------------------|
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|--------------------------------------|---|------------------------------|


**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°   
   $\gamma$  70°   
   $\gamma$  75°   
   $\gamma$  80°   
   $\gamma$  85°



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|---|---|-------------------------------------|

|                             |                                 |   |
|-----------------------------|---------------------------------|---|
| <b>Dimming levels table</b> | environmental temperature: 25°C |  |
|-----------------------------|---------------------------------|---|

| Luminous flux % | Dimming level linear | Dimming level logarithmic | Luminous flux [lm] | Power consumption [W] |
|-----------------|----------------------|---------------------------|--------------------|-----------------------|
| 100             | 254                  | 254                       | 4250               | 35.0                  |
| 95              | 241                  | 252                       | 4038               | 33.3                  |
| 90              | 227                  | 250                       | 3825               | 31.4                  |
| 85              | 214                  | 248                       | 3613               | 29.6                  |
| 80              | 200                  | 245                       | 3400               | 27.8                  |
| 75              | 187                  | 243                       | 3188               | 26.1                  |
| 70              | 174                  | 240                       | 2975               | 24.4                  |
| 65              | 161                  | 238                       | 2763               | 22.6                  |
| 60              | 148                  | 234                       | 2550               | 21.0                  |
| 55              | 135                  | 231                       | 2338               | 19.3                  |
| 50              | 122                  | 227                       | 2125               | 17.7                  |
| 45              | 110                  | 223                       | 1913               | 16.1                  |
| 40              | 97                   | 219                       | 1700               | 14.5                  |
| 35              | 85                   | 214                       | 1488               | 12.9                  |
| 30              | 72                   | 208                       | 1275               | 11.2                  |
| 25              | 60                   | 201                       | 1063               | 9.6                   |
| 20              | 48                   | 194                       | 850                | 8.1                   |
| 15              | 36                   | 183                       | 638                | 6.5                   |
| 10              | 24                   | 168                       | 425                | 5.1                   |
| 5               | 12                   | 144                       | 213                | 3.2                   |